

AD-A122 711

SENBACH AB GERMANY (WEST) REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBS. (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A. 28 JUL 82  
USAFETAC/D5-82-048 SBI-AD-EBBO 204 F/G 8/2

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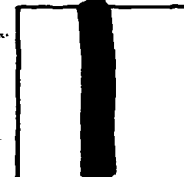
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Air Weather Service ( MAC )

REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS

SEMBACH AB DL MSC #107120  
N 49 30 E 007 52 FLD ELEV 1052 FT EDAS

PARTS A-F  
POR FROM HOURLY OBS: JUL 64 - SEP 68, FEB 76 - DEC 81  
POR FROM DAILY OBS: JUL 53 - DEC 72, FEB 76 - DEC 81  
TIME CONVERSION GMT TO LST: +1

JUL 28 1982

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER USAFETAC/DS-82/045	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- SEMBACH AB, GERMANY (WEST)		5. TYPE OF REPORT & PERIOD COVERED Final rept.
7. AUTHOR(s)		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS USAFETAC/OL-A Air Force Environmental Technical Appl. Center Scott AFB IL 62225		8. CONTRACT OR GRANT NUMBER(s)
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18. SUPPLEMENTARY NOTES Supersedes Report number USAFETAC/DS-80-061 AD A087 821.		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) *RUSSWO      Daily temperatures      Atmospheric pressure Snowfall      Extreme snow depth      Extreme surface winds Climatology      Sea-level pressure      Psychrometric summary Surface Winds      Extreme temperature      Ceiling versus visibility Relative Humidity      *Climatological data      (over)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for SEMBACH AB, GERMANY (WEST) It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)		

DD FORM 1 JAN 73 1473

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19. Percentage frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables  
GERMANY (WEST) SEMBACH AB, GERMANY (WEST)
  
20. and dew point temperatures and relative humidity); and (F) Pressure  
Summary (means, standard, deviations, and observation counts of  
station pressure and sea-level pressure). Data in this report are  
presented in tabular form, in most cases in percentage frequency of  
occurrence or cumulative percentage frequency of occurring tables.

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The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WMO number with the addition of a suffix zero; or, in cases where there is no designated WMO number, a 5-digit number created in agreement with WMO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

### HOURLY OBSERVATIONS

Hourly observations are defined as those records or record-species observations recorded at scheduled hourly intervals.

### DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into summary of the day (general, record-species, local, summary of the day, remarks, etc.)

### DESCRIPTION OF SUMMARIES

Each section is a brief description of the data comprising each part of the revised uniform summary of surface weather observations and the manner of presentation. Summaries are prepared from hourly and daily observations recorded by stations operating for 24 hours, and some foreign stations with similar reporting practices.

When otherwise noted the following summaries are included for this station:

#### PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

#### PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

#### PART C SURFACE WINDS

#### PART D CEILING VERSUS VISIBILITY

SKYCOVER DATA NOT AVAILABLE

#### PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC DRY VS WET BULB

MEAN & STD DEV  
(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

#### PART F STATION PRESSURE

SEA LEVEL PRESSURE DATA NOT AVAILABLE

### STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 000-0300, 0300-0600, 0600-0900, 0900-1200, 1200-1500, 1500-1800, 1800-2100, 2100-2400 hours local standard time.

### MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY \_\_\_\_\_

APRIL \_\_\_\_\_

JULY \_\_\_\_\_

OCTOBER \_\_\_\_\_

FEBRUARY \_\_\_\_\_

MAY \_\_\_\_\_

AUGUST \_\_\_\_\_

NOVEMBER \_\_\_\_\_

MARCH \_\_\_\_\_

JUNE \_\_\_\_\_

SEPTEMBER \_\_\_\_\_

DECEMBER \_\_\_\_\_



NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Apr 62 to Jun 71	Located adjacent to and near mid- point of Rnwy.	AN/GMO-11	RO-2	13 ft	
2	Jul 71 to Jun 82	Located 575 ft SSW of centerline at midpoint of Rnwy 07/25.	Same	Same	Same	



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A

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WEAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

OFFICE OF CLIMATOLOGY BRANCH  
 USAFETAC  
 WEATHER SERVICE/MAC

# WEATHER CONDITIONS

1 STATION 104484 AB DL 65-66, 77-81 JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	0-22		22.3	.3	13.1		33.1	24.7	41.6			32.3	377
	3-25		19.2	.2	14.4		33.6	31.5	32.2			32.6	479
	6-15		14.6	1.6	15.0		33.2	34.7	24.5			31.6	692
	9-11		13.6	.7	18.3		31.4	33.1	26.1			30.1	416
	12-14		10.1	.6	16.7		32.2	22.5	27.9			45.2	419
	16-17	.1	17.2	1.0	14.3		30.4	16.6	28.0	.1		42.1	419
	18-2	.1	14.8	.6	12.3		26.6	26.7	33.6			54.5	696
	11-23		18.1		12.6		29.7	27.0	34.0			54.0	503
TOTALS		.2	17.1	.7	15.1		31.5	27.1	31.1	.1		51.2	5284

NATIONAL CLIMATOLOGY BRANCH  
 METAC  
 AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

1 GEMBACH AB DL

65-66, 76-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
FEB	0-00		13.0		9.3		21.5	16.4	37.7			44.5	353
	03-05		14.5	.2	9.4		24.2	25.3	31.1			47.4	447
	06-08		14.8		13.1		24.3	37.2	24.9			55.5	724
	09-11		17.1	.2	12.6		29.7	29.7	20.9			46.7	537
	12-14	.1	16.6	.5	10.7		25.8	15.8	27.5			47.7	503
	15-17		14.5	.5	8.0		22.7	11.1	29.5			36.4	430
	18-20	.1	14.2	.1	6.5		20.2	15.7	30.6			42.3	716
	21-23		13.0		7.4		19.7	20.2	30.4			45.0	593
TOTALS		.0	14.7	.2	9.2		23.5	21.4	29.1			45.1	5731

NAVAL CLIMATOLOGY BRANCH  
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# WEATHER CONDITIONS

1. STATION SANDACH AE DL STATION NAME 65-68,76-61 YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
MAY	10-20		12.5		4.4	.2	16.4	16.1	31.3			35.4	499
	23-25		13.7		5.1		23.4	21.2	27.1			37.4	500
	26-30	.1	21.0		4.3		23.6	23.7	24.9			41.3	926
	09-11	.2	17.2		4.9	.1	21.0	15.1	24.8			36.9	924
	12-14		16.1		2.4	.2	17.8	5.9	21.1			26.7	930
	15-17	.1	15.6		2.6	.1	17.8	3.3	16.6			19.6	929
	18-20	.4	16.8		2.6		19.3	4.6	19.9			22.8	913
	21-23		15.6		3.7		18.9	6.3	22.0			24.7	668
TOTALS		.1	10.6		3.7	.1	19.8	12.0	23.5			31.7	5987

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

1 STATION 65-62,76-31 65-62,76-31 APR MONTH  
STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
01	0-23		16.1		.7		16.1	17.2	15.9			26.4	435
	0-23		17.8		1.7		18.3	30.3	12.2			39.8	645
	0-23		15.5		3.5		17.6	30.4	19.9			43.1	819
	0-11		16.2	.2	2.3		17.9	11.2	22.5			31.3	394
	12-14	.1	13.8		.9	.2	14.7	4.9	13.5			17.3	897
	15-17	.5	13.3		1.0		14.0	3.6	8.8			12.2	884
	18-21	.5	13.5		.4		13.5	4.2	10.1			13.6	790
	22-23	.1	13.4		.3		13.7	7.1	14.1			20.1	657
TOTALS		.2	15.4	.2	1.4	.2	15.7	13.6	15.4			25.5	5931

LOCAL CLIMATOLOGY BRANCH  
 WLTAC  
 AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

107  
 STATION

LEMBACH AB CL

STATION NAME

65-68,76-81

YEARS

MAY  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
MAY	0-00	.2	13.7				13.7	13.2	11.8			21.2	476
	03-06	.2	13.5				13.5	24.9	13.5			13.3	579
	06-09		14.0				14.0	19.8	13.7			37.0	831
	09-11	.3	14.4		.5		14.4	4.4	11.2			19.5	611
	12-14	.7	15.1		.3		15.1	1.7	5.0			6.6	915
	15-17	.7	11.1		.2	.1	11.2	1.2	3.5			4.8	900
	18-20	1.9	10.5				10.5	1.5	4.8			5.2	810
	21-23	.7	12.8				12.8	4.7	8.0			11.1	696
TOTALS		.6	13.1		.1	.0	13.2	8.9	8.9			16.2	6110

GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

100 AIRCRAFT AB DL 65-68, 76-81 JUN  
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
JUN	00-02	1.3	10.0				10.0	19.6	17.5			10.0	469
	03-05	1.4	6.2				6.2	37.3	16.3			40.6	573
	06-08	1.1	11.1				11.1	27.5	18.3			39.2	601
	09-11	.6	12.0				12.0	5.6	16.0			24.5	854
	12-14	1.3	11.5				11.5	2.6	8.4			10.6	896
	15-17	2.9	10.0				10.0	2.7	5.0			7.3	667
	18-20	2.6	9.9				9.9	2.7	6.5			8.5	801
	21-23	1.4	8.6				8.6	9.3	13.2			19.7	690
TOTALS		1.6	10.2				10.2	13.4	12.8			22.4	6031



LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
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## WEATHER CONDITIONS

12. GUMBACH AB CL

64-68, 76-81

JUL

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JUL	01-12	1.6	7.4				7.4	15.7	13.0			23.0	703
	13-24	1.9	9.1				9.1	24.1	15.2			32.4	627
	25-36	.7	12.8				12.8	20.2	16.3			32.3	648
	37-48	.4	11.9				11.9	7.1	13.0			19.0	707
	49-60	.6	1.7				10.7	2.0	0.5			6.2	691
	61-72	2.0	1.5				10.0	1.5	5.2			6.4	784
	73-84	1.2	2.0				9.0	2.1	4.9			6.2	786
	85-96	2.0	11.1				11.1	7.1	8.7			13.2	704
TOTALS		1.4	1.3				10.3	10.0	10.4			17.7	659

JOINT CLIMATOLOGY BRANCH  
 JOINT TAC  
 WEATHER SERVICE/MAC

## WEATHER CONDITIONS

120  
 STATION

SYMBACH AB DL

STATION NAME

64-65,76-81

YEARS

AUG  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
AUG	00-02	.8	12.6				12.6	21.1	19.0			31.4	476
	03-05	.7	13.2				13.2	38.3	19.3			40.1	605
	06-08	.2	9.7				9.7	37.6	19.8			47.2	713
	09-11		9.2				9.2	13.4	20.3			37.4	1005
	12-14	.2	8.7				8.7	3.4	11.9			14.7	1009
	15-17	1.6	8.7				8.7	1.0	9.2			10.0	689
	18-20	1.1	9.5				9.5	2.3	9.9			11.3	897
	21-23	1.4	10.6				10.6	8.6	18.9			22.1	860
TOTALS		.8	9.7				9.7	15.7	16.0			26.7	6555

U.S. NAVAL CLIMATOLOGY BRANCH  
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# WEATHER CONDITIONS

10  
 STATION

EMBACH 49 DL

STATION NAME

64-65, 76-81

YEARS

SEP  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
EP	00-01		1.7				10.9	34.2	31.5			46.3	441
	02-03		1.6				10.6	45.0	23.1			55.4	543
	04-05		5.4				8.4	50.7	19.0			60.5	608
	06-07		7.6				7.6	19.8	25.1			40.9	969
	08-09												
	10-11												
	12-14	.1	9.7				9.7	3.4	17.5			19.6	974
	15-17	1.2	11.1				11.1	1.6	13.9			15.1	951
	18-20	.6	9.1				9.1	7.4	19.7			24.6	834
	21-23	.2	9.2				9.2	19.7	23.3			35.5	640
TOTALS		.3	9.6				9.6	22.6	21.6			37.6	6271

1288

1. ☐ **CLIMATE CLIMATOLOGY BRANCH**  
 USAPETAC  
 AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

1. STATION

SAMPACH AB DL

STATION NAME

64-67, 76-81

YEARS

OCT  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
OCT	00-24		17.9				17.9	45.3	38.9			59.3	366
	03-05		15.1				15.1	49.2	29.9			60.1	532
	06-08		12.5				12.5	51.0	22.0			52.5	753
	09-11		15.8				15.8	33.6	23.4			50.9	923
	12-14	.1	15.3			.1	15.3	14.8	22.6			35.5	916
	15-17		12.3				12.3	9.6	24.8			32.1	706
	18-20	.1	11.9				11.9	18.1	30.2			42.2	759
	21-23		14.3				14.3	26.1	30.9			46.2	637
TOTALS		.0	14.4			.0	14.4	31.2	27.8			46.8	5752

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

107 SEMBACH AB DL 64-67,76-81 NOV  
STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
NOV	0-02		24.1	.5	7.0		32.3	45.3	51.7			70.1	177
	03-05		17.6	.2	9.0		24.9	46.2	38.5			66.9	175
	06-08		21.7		7.4		27.6	45.5	26.6			60.1	206
	09-11		20.6	.2	7.6	.1	27.1	36.6	27.3	.1		65.1	150
	12-14		16.9	.5	7.7		23.7	22.8	27.7			48.2	137
	15-17		19.8	.6	5.7		21.5	17.3	26.8			40.2	106
	18-20		18.8	.9	4.6		23.5	26.6	35.5			51.9	201
	21-23		22.7	.9	5.6		28.6	32.4	37.5	.5		57.6	147
TOTALS			19.8	.5	6.8	.1	25.9	34.1	34.0	.1		56.1	1417

CENTRAL CLIMATOLOGY BRANCH  
 WAFETAC  
 AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

1. SOMBACH AB DL

64-67, 76-81

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
DEC	00-02		23.5	.3	9.9		33.4	29.9	41.2			54.6	274
	03-05		22.0	1.2	6.5		29.1	31.7	31.9			52.4	192
	6-08		23.4	1.1	10.6		34.0	33.0	22.1			49.6	739
	9-11		25.4	1.3	11.4		32.2	30.9	21.4			46.1	292
	12-14		22.1	1.3	11.6		33.1	21.9	23.3	.1		40.3	354
	15-17		24.9	.2	11.0	.1	33.3	20.3	24.5			43.3	597
	18-20		25.0	.8	8.8		33.2	26.4	27.9			46.	736
	21-23		23.8	1.5	6.2		32.7	32.0	26.4			50.6	579
TOTALS			23.1	.9	9.6	.1	32.6	28.5	27.4	.0		47.3	5629

CLIMATE CLIMATOLOGY BRANCH  
 TETAC  
 WEATHER SERVICE/MAC

## WEATHER CONDITIONS

127 LIPSACH AB DL 64-68,76-81 ALL  
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	ALL	.0	17.1	.7	15.1		31.5	27.1	31.1	.0		50.5	1794
FEB		.0	14.7	.2	9.2		23.5	21.4	29.1			40.1	1731
MAR		.1	16.6		3.7	.1	19.8	12.0	23.5			37.7	5087
APR		.2	15.0	.0	1.4	.0	15.7	13.6	15.4			25.5	5731
MAY		.6	13.1		.1	.0	13.2	8.9	6.9			10.2	6119
JUN		1.6	10.2				10.2	13.4	12.2			22.4	6731
JUL		1.4	10.3				10.3	10.0	10.4			17.7	6567
AUG		.8	9.7				9.7	15.7	16.0			26.7	6455
SEP		.3	9.6				9.6	22.8	21.6			37.6	6270
OCT		.0	14.4			.0	14.4	31.2	27.8			44.3	5750
NOV			19.8	.5	6.8	.0	25.9	34.1	34.0	.1		56.1	5417
DEC			23.1	.9	9.6	.0	32.6	28.5	27.4	.0		48.3	5629
TOTALS		.4	14.5	.2	3.6	.0	16.0	19.9	21.5	.0		35.5	70979

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WMAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than 5/8 mile.



1. STATION NAME  
2. LOCATION  
3. DATE OF OBSERVATION

# WEATHER CONDITIONS

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

ATMOSPHERIC PHENOMENA

1  
STATION

STATION NAME

13-72, 76-81

YEARS

ALL  
MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL % OF OBS
JAN	ALL Y	.7	44.7	5.4	42.1	.4	68.1	71.0	59.3	1.0		1.0	70.0
FEB		.7	44.7	3.3	37.6	.7	66.7	63.6	77.0	.7		1.0	66.7
MAR		7.2	44.4	.7	19.0	2.0	54.8	63.6	72.9			61.0	77.0
APR		1.5	45.7	.1	11.0	3.0	58.7	60.5	62.2			72.3	71.0
MAY		1.8	56.0		1.0	1.0	57.0	48.3	56.0			67.5	77.0
JUN		11.5	56.0			1.0	56.1	63.1	61.0			71.0	77.0
JUL		14.3	61.0			.7	63.2	51.3	61.4			71.0	77.0
AUG		11.5	63.4			.6	53.4	60.3	64.6			77.4	77.0
SEP		7.1	44.6			.7	44.6	69.7	69.3			61.0	74.0
OCT		1.0	44.3		1.0	.7	49.3	75.0	72.8			61.0	77.0
NOV		.7	57.0	1.3	17.8	.3	62.5	76.3	68.6	.0		71.0	77.0
DEC		.4	53.7	6.1	34.1	.7	69.6	72.1	69.4	.7		71.0	74.0
TOTALS		6.8	51.5	1.4	13.7	1.2	58.2	62.3	66.7	.3		67.0	76.0

U S AIR FORCE  
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APPLICATIONS CENTER

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (\*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	".00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (\*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

\* Values for means and standard deviations do not include measurements from incomplete months.

- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (\*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945	at 0800LST
Jan 46-May 57	at 1230GMT
Jun 57-present	at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52	at 0030GMT
Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT

3  
 1. CLIMATE BRANCH  
 2. STATION  
 3. WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
 PRECIPITATION  
 (FROM DAILY OBSERVATIONS)

STATION SMITHACH AB DL STATION NAME 53-77, 76-81 YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	1.0	10.3	4.5	15.8	9.4	13.4	5.2	2.9						11.1	695	2.34	5.75	.24
FEB	2.0	22.6	5.3	13.8	9.5	12.0	4.8	2.1	.3					47.6	667	1.69	5.70	.09
MAR	1.0	10.0	4.1	11.6	7.0	12.3	5.9	1.6						42.4	733	1.93	3.55	.77
APR	.4	1.1	5.1	10.9	7.9	11.5	5.7	1.3	.1					42.4	705	1.69	3.46	.34
MAY	3.0	1.0	3.7	11.3	6.9	11.0	6.5	2.3	.3					42.0	724	1.69	6.70	.56
JUN	1.2	16.0	1.8	9.6	7.3	9.0	7.2	5.1	.0					42.8	711	2.31	5.1	.24
JUL	4.0	15.5	4.5	7.8	6.1	11.9	4.7	4.0	1.2					40.2	748	2.53	6.63	.40
AUG	2.4	14.4	3.0	8.3	6.0	13.6	7.6	3.9	.9					43.2	778	2.94	7.31	.17
SEP	0.6	13.8	4.5	10.4	3.9	7.4	6.5	2.0	.9					37.6	739	2.46	7.84	.07
OCT	4.0	17.2	5.8	9.0	6.2	9.7	6.6	1.3	.4					34.5	754	1.91	4.49	.12
NOV	3.4	21.4	5.0	11.9	7.5	12.3	5.9	2.1	.4					46.2	776	2.14	5.17	.27
DEC	27.5	19.8	7.4	13.1	8.3	13.1	7.5	3.0	.3					52.7	732	2.51	6.14	.15
ANNUAL	3.0	11.3	4.7	11.1	7.2	11.4	6.2	2.6	.5					43.7	8645	27.07		

CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

# EXTREME VALUES

PRECIPITATION

FROM DAILY OBSERVATIONS

STATION 120 EMBACH AB DL  
STATION NAME

53-72, 76-81  
YEARS

## 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
4	.45	.81	.64	.40	.53	1.03	.36	1.41	.44	.25	.13	.19	1.03
5	.74	.74	.37	.24	.50	1.68	.96	.72	.64	.52	.18	.56	1.68
56	.54	.18	.30	.58	.42	.68	.81	1.07	.29	.60	.70	.36	1.07
57	.26	.43	.74	.36	.30	.93	.36	.28	1.80	1.05	.24	.34	1.80
58	.65	1.10	.42	.38	.62	.60	1.92	.68	.31	.27	.28	.50	1.92
59	.35	.05	.36	.45	.36	.44	.81	2.12	.02	.32	.33	.69	2.12
6	.42	.53	.72	.47	.63	.60	.66	1.08	.82	.49	.55	.49	1.08
61	.52	.26	.24	.57	.63	1.47	1.29	.44	.28	.48	.40	.29	1.47
62	.72	1.10	.76	.70	.60	.10	1.25	.33	.51	.23	.38	.34	1.25
63	.29	.15	.55	.43	.15	.65	1.31	.41	.30	1.15	1.26	.10	1.31
64	.17	.25	.27	.67	.60	.50	.16	.49	.79	.50	1.25	.52	1.25
65	1.70	.27	.55	.55	.60	1.07	.83	.87	.12	.73	1.00		1.07
66	.73	.71	.55	.35	.90	.68	.99	1.29	.21	.88	.38	1.56	1.56
67	.29	.55	.44	.47	.58	.35	1.22	.68	2.03	.46	.38	.71	2.03
68	.83	.34	.45	.70	.62	1.23	.69	1.73	1.14	.35	.22	.49	1.73
69	.34	.89	.42	.36	.67	.66	.57	.67	.12	.06	.52	.12	.67
7	.33	.82	.31	.24	.77	.37	.44	.55	.71	.46	.45	.26	.55
71	.61	.23	.23	.61	.81	.72	.59	.57	.11	.73	1.19	.20	1.19
72	.23	.08	.22	.37	.49	.50	1.49	.51	.19	.48	.66	.30	1.49
76		.18	.23	.33	.25	.76	1.91	.34	1.33	.70	.45	1.23	1.91
77	.51	.79	.39	.28	.23	.89	1.30	.51	.35	.29	.63	.55	1.30
78	.34	.45	.66	.10	1.45	.75	.69	.64	.50	.29	.22	.74	1.45
79	.99	.49	.50	.35	.29	.62	.46	.87	.60	.48	.63	.60	.99
80	.57	.41	.30	.53	.45	.94	1.10	.98	.46	.53	.41	.27	1.10
81	.33	.35	.46	1.01	.41	1.23	.79	.73	.67	1.97	.60	.86	1.97
MEAN	.511	.513	.471	.470	.505	.816	.961	.835	.689	.520	.501	.582	1.009
S.D.	.246	.342	.165	.201	.186	.386	.504	.577	.554	.298	.349	.361	.379
TOTAL OBS	695	660	733	705	724	711	748	738	739	754	706	732	8649

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88.5 (OL A)

CLIMATOLOGY BRANCH  
USAF ETAC  
AL WEATHER SERVICE/MAC

# EXTREME VALUES MONTHLY PRECIPITATION

FROM DAILY OBSERVATIONS

123 LEACH AR DL  
STATION STATION NAME

53-72, 76-81  
YEARS

## TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
53							* 1.60	2.07	2.17	.81	.27	.99	
54	2.66	1.71	1.39	2.49	1.30	2.37	2.74	4.49	4.36	2.42	1.00	1.94	26.87
55	2.55	3.31	1.27	.91	2.81	5.01	2.51	2.17	2.27	1.39	.64	3.53	74.37
56	2.63	.62	.92	3.48	1.60	2.31	2.49	3.72	1.76	2.92	1.89	1.75	25.44
57	1.53	4.01	2.94	.94	1.56	3.30	1.06	2.04	7.84	1.42	.82	1.75	74.21
58	3.85	5.00	1.33	1.23	3.66	3.96	3.30	3.58	1.16	1.39	1.28	3.10	72.54
59	1.97	.09	1.42	1.86	1.29	1.63	1.30	3.22	.02	1.50	.89	3.13	18.25
60	1.97	2.27	1.19	1.21	2.69	1.52	2.92	5.59	1.42	3.60	3.23	2.27	29.28
61	3.07	1.61	.77	1.86	2.48	4.48	3.35	1.45	.98	2.11	1.36	1.94	25.46
62	1.99	2.36	2.27	1.72	2.11	.24	2.09	1.07	2.43	.53	1.51	2.74	20.34
63	1.23	.80	3.42	1.16	.56	2.81	2.05	3.24	1.43	1.85	5.17	.15	23.67
64	.24	1.15	1.87	1.48	1.47	1.21	.48	1.66	2.17	2.60	3.08	1.43	19.17
65	5.55	1.01	2.80	2.79	2.88	4.18*	3.81		3.51	.23	5.16	6.14	
66	2.30	2.04	2.16	2.63	2.15	3.95	4.22	4.26	.49	2.82	2.40	4.93	34.01
67	1.12	1.88	1.90	1.68	2.22	1.37	2.15	2.92	5.25	3.10	1.88	2.99	28.45
68	* 3.59	1.99	1.89	2.19	2.69	2.97	3.51	7.31*	2.18*	1.49*	.30*	1.23	*31.14
69	* 1.00*	1.79*	1.67*	1.07*	1.12*	2.62*	1.73*	3.25*	.14*	.12*	1.17*	.41	*10.76
70	* 1.38*	2.32*	.76*	1.06*	1.64*	.70*	2.13*	.88*	1.48*	1.09*	1.01*	1.23	*15.48
71	* 1.31*	.71*	.70*	.95*	2.03*	2.76*	.85*	1.61*	.48*	.93*	2.60*	.36	*15.79
72	* .93*	.24*	1.12*	2.42*	2.94*	2.79*	2.32*	2.81*	.56*	.90*	3.55*	.57	*21.13
76		.34	.90	.83	.66	1.00	5.02	.73	3.06*	1.78*	1.63*	3.69	
77	* 2.50*	4.40	1.34	1.18*	.77*	3.37*	1.70	2.91*	.60*	1.41*	2.83*	2.73	*25.79
78	* 1.33*	1.41	2.62	.34*	6.30	2.85*	2.71	1.41*	1.82*	.82*	.42*	4.12	*26.15
79	* 1.86*	2.72	3.65	1.82	1.72	1.96	1.28*	2.81*	1.26*	1.74*	2.91*	3.79	*26.87
80	* 1.41*	1.65	1.51*	1.64*	1.21	4.72*	6.63	1.93	1.53*	2.57*	1.58*	1.64	*26.07
81	* 2.03*	1.15	2.92	1.77*	1.96	4.50*	3.32*	2.09*	1.21*	4.98*	1.23*	5.27	*32.47
MEAN	2.334	1.887	1.928	1.679	1.987	2.812	2.529	2.935	2.462	1.913	2.039	2.512	26.492
S.D.	1.291	1.328	.849	.762	.833	1.403	1.197	1.653	1.924	.992	1.524	1.525	5.003
TOTAL OBS	695	660	733	755	724	711	748	738	739	754	706	732	2645

NOTE \* (BASED ON LESS THAN FULL MONTHS)

3 CENTRAL CLIMATOLOGY BRANCH  
 4 WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
 SNOWFALL  
 (FROM DAILY OBSERVATIONS)

1 STATION SYMPACH AP DL STATION NAME 53-72, 76-P1 YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	5.7	01.0	3.9	7.4	3.7	.0	.0	.3	.7					22.3	699	7.1	19.3	TRACE
FEB	1.0	01.0	7.9	7.3	1.5	.6	.0	.2						17.5	561	4.3	15.0	.0
MAR	7.7	1.0	3.4	2.7	1.7	.3	.7							7.6	735	1.8	6.3	.0
APR	8.7	0.6	1.0	.7	.1	.1			.1					0.1	719	.9	10.0	.0
MAY	0.8	.2													732	TRACE	TRACE	.0
JUN	0.0														713	.0	.0	.0
JUL	0.0														756	.0	.0	.0
AUG	0.0														777	.0	.0	.0
SEP	0.0														740	.0	.0	.0
OCT	9.0	.5													736	TRACE	TRACE	.0
NOV	0.4	10.5	1.7	2.4	1.4	.3	.1	.1						6.2	698	0.2	10.5	.0
DEC	4.0	1.5	0.9	5.2	1.8	.5								14.4	734	2.7	12.7	TRACE
ANNUAL	5.9	8.2	7.6	2.1	.8	.2	.1	.0	.0					5.8	8691	10.0		

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AT: WEATHER SERVICE/MAC

# EXTREME VALUES

SNOWFALL

FROM DAILY OBSERVATIONS

STATION 120 EMBACH AB DL  
STATION NAME

53-72, 76-81  
YEARS

## 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
53													
54	2.8	1.4	.2	TRACE	.3	.0	.3	.0	.7	.3	TRACE	.1	2.9
55	1.7	2.8	1.8	TRACE	TRACE	.3	.3	.0	.3	.0	TRACE	1.9	2.9
56	3.3	1.8	.6	.9	TRACE	.0	.0	.0	.0	.0	2.0	.5	3.3
57	2.6	.6	.0	.1	TRACE	.0	.0	.0	.7	.3	TRACE	TRACE	2.6
58	3.2	6.4	3.2	1.9	.0	.0	.0	.0	.0	.7	.0	2.0	6.4
59	3.5	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.7	TRACE	.3	3.5
60	1.6	.4	.6	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	2.9	2.9
61	5.9	1.2	.1	.0	.7	.3	.3	.0	.0	TRACE	1.3	.2	5.9
62	TRACE	2.4	3.2	TRACE	.3	.0	.0	.0	.0	.3	4.8	1.2	4.8
63	2.1	1.5	TRACE	.0	.0	.0	.0	.0	.0	.3	.0	1.0	2.1
64	.7	.9	1.1	TRACE	.3	.3	.1	.0	.0	.3	TRACE	1.3	1.8
65	1.7	1.0	3.5	TRACE	.7	.3	.0	.0	.3	.7	2.0	.7	3.5
66	1.4	.0	1.8	.0	.0	.0	.0	.0	.0	TRACE	2.4	1.4	2.4
67	1.2	.1	.7	.8	.0	.0	.0	.0	.0	.0	2.6	2.5	2.6
68	8.7	2.6	1.7	.7	.7	.0	.3	.0*	.0		*TRACE*	.5	
69	* 2.0*	2.0*	TRACE*	.2*	TRACE*	.0*	.3*	.0*	.3*	.3*	.9*	1.2	* 2.3
70	* 1.1*	2.7*	2.0*	1.4*	TRACE*	.0*	.3*	.0*	.7*	.3*	.4*	2.0	* 2.7
71	* .1*	.5*	4.3*	.0*	.0*	.0*	.0*	.3*	.7*	.3*	4.0*	.4	* 4.3
72	* 1.1*	.0*	TRACE*	TRACE*	.0*	.3*	.3*	.0*	.0*	TRACE*	2.6*	TRACE*	* 2.6
76		1.7	TRACE	TRACE	TRACE	.0	.0	.0	.3	.3	TRACE*	1.0	
77	* 2.0*	TRACE	TRACE	TRACE*	.3*	.0*	.0	.0*	.0*	.3*	2.0*	TRACE*	* 2.7
78	* 2.7*	2.8	TRACE	TRACE*	.3	.3*	.3	.0*	.0*	.3*	TRACE*	2.3	* 2.9
79	* 6.5*	1.0	.0	TRACE	TRACE	.0	.0*	.0*	.0*	.0*	.5*	.2	* 6.5
80	* .5*	TRACE	TRACE*	TRACE*	.3	.3*	.3	.0	.0*	.3*	1.8*	2.7	* 2.7
81	* 5.4*	1.5	TRACE	9.0*	TRACE	.3*	.0*	.0*	.3*	.3*	TRACE*	1.9	* 9.0
MEAN	2.64	1.55	.86	.67	TRACE	.00	.00	.00	.00	TRACE	1.71	1.15	3.39
S.D.	2.030	1.571	1.198	2.021	.300	.000	.000	.000	.000	.003	1.465	.917	1.366
TOTAL OBS	699	661	735	779	732	713	756	773	745	736	698	734	8691

NOTE \* (BASED ON LESS THAN FULL MONTHS)



GLOBAL CLIMATOLOGY BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAC

# EXTREME VALUES MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

17 SOMBACH AB DL

53-72, 76-81

STATION

STATION NAME

YEARS

## TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
53							.0	.0	.0	.0	TRACE	.1	
54	12.5	2.1	.2	TRACE	.0	.0	.0	.0	.0	.0	TRACE	TRACE	14.8
55	7.3	13.5	5.1	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	3.1	29.7
56	6.7	5.6	.6	1.5	TRACE	.0	.0	.0	.0	.0	2.0	3.0	19.4
57	7.4	.6	.0	.1	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	8.1
58	6.4	15.0	8.3	2.2	.0	.0	.0	.0	.0	.0	.0	2.4	34.8
59	8.3	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.8	9.1
60	4.0	1.0	.6	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	6.4	12.7
61	9.3	1.8	.1	.0	.0	.0	.0	.0	.0	TRACE	1.3	.4	12.9
62	TRACE	6.2	6.6	TRACE	.0	.0	.0	.0	.0	.0	10.5	3.0	26.8
63	6.7	6.7	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	1.4	14.8
64	.9	2.3	2.4	TRACE	.0	.0	.0	.0	.0	.0	TRACE	6.7	12.8
65	9.9	6.1	5.8	TRACE	.0	.0	.0	.0	.0	.0	7.1	2.1	31.7
66	3.2	.0	3.5	.0	.0	.0	.0	.0	.0	TRACE	0.5	4.0	19.9
67	4.0	.3	.2	1.2	.0	.0	.0	.0	.0	.0	2.9	7.0	15.6
68	19.3	5.5	4.6	.7	.0	.0	.0	.0	.0	.0	*TRACE*	.9	
69	* 3.6*	* 7.5*	*TRACE*	*.2*	*TRACE*	.0*	.0*	.0*	.0*	.0*	*.0*	* 1.7*	* 2.7*
70	* 2.5*	* 5.5*	* 2.0*	* 2.2*	*TRACE*	.0*	.0*	.0*	.0*	.0*	.0*	*.4*	* 5.1*
71	* .1*	* 1.0*	* 6.4*	*.0*	.0*	.0*	.0*	.0*	.0*	.0*	*.0*	* 6.3*	*.4*
72	* 3.4*	.0*	*TRACE*	*TRACE*	.0*	.0*	.0*	.0*	.0*	*TRACE*	* 4.6*	*TRACE*	* 8.3*
76		1.9	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	*TRACE*	1.2	
77	* 3.8*	*TRACE*	TRACE	TRACE*	.0*	.0*	.0	.0	.0	.0	*.0*	* 2.1*	*TRACE*
78	* 5.3*	* 5.5*	TRACE	TRACE*	.0*	.0*	.0	.0	.0	.0	*TRACE*	3.5	* 14.8*
79	* 13.6*	* 1.5*	.0	TRACE	TRACE	.0	.0	.0	.0	.0	*.0*	.5*	*.3*
80	*.9*	*TRACE*	TRACE*	*TRACE*	.0	.0	.0	.0	.0	.0	*.0*	* 2.0*	* 8.5*
81	* 12.9*	* 3.0*	TRACE	12.0*	*TRACE*	.0*	.0*	.0*	.0*	.0*	*TRACE*	12.7	* 40.6*
MEAN	7.11	4.29	1.81	.89	TRACE	.00	.00	.00	.00	TRACE	2.15	2.69	16.54
S.D.	4.716	4.570	2.677	2.689	.300	.000	.000	.000	.000	.000	3.560	2.429	8.431
TOTAL OBS	699	661	735	709	732	713	756	773	745	736	698	734	6691

NOTE \* (BASED ON LESS THAN FULL MONTHS)

3  
FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

STATION 122 SHEACH A. DL STATION NAME 53-72, 76-81 YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01 0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	5.4	12.4	6.4	6.7	6.3	7.7	4.0	.1						71.2	702			
FEB	0.0	8.6	5.0	6.1	4.6	5.6	1.9							23.4	637			
MAR	5.0	6.9	2.5	2.1	1.4	1.0	.1							7.4	707			
APR	8.0	.7	.1	.1		.1	.1							.6	685			
MAY	0.0														702			
JUN	0.0														717			
JUL	0.0														757			
AUG	0.0														773			
SEP	0.0														745			
OCT	0.0														762			
NOV	0.1	4.6	1.7	1.0	.3	.4								3.3	717			
DEC	15.9	11.1	5.2	4.0	.8	1.6	.7							13.1	742			
ANNUAL	80.7	3.7	1.8	1.7	1.1	1.4	.6	.0						6.6	8676			

CLIMATOLOGY BRANCH  
ETAC  
A WEATHER SERVICE/MAC

# EXTREME VALUES

SNOW DEPTH

FROM DAILY OBSERVATIONS

1 SEMBACH AB DL

53-72, 76-81

STATION

STATION NAME

YEARS

## DAILY SNOW DEPTH IN INCHES

MONTH	JAN.	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR													
53						*	0	0	0	0	0	TRACE	0
54	8	1	TRACE	0	0	0	0	0	0	0	0	TRACE	0
55		11	7	0	0	0	0	0	0	0	TRACE	2	11
56	3	6	1	TRACE	0	0	0	0	0	0	0	2	0
57	3	0	0	0	0	0	0	0	0	0	TRACE	TRACE	0
58	4	8	3	2	0	0	0	0	0	0	0	2	0
59	4	0	0	0	0	0	0	0	0	0	0	TRACE	0
60	3	1	0	0	0	0	0	0	0	0	0	0	0
61	7	TRACE	0	0	0	0	0	0	0	0	TRACE	TRACE	0
62	TRACE	2	3	0	0	0	0	0	0	0	0	0	0
63	4	5	0	0	0	0	0	0	0	0	0	0	0
64		0	0	0	0	0	0	0	0	0	0	0	0
65		0	0	0	0	0	0	0	0	0	0	0	0
66		0	0	0	0	0	0	0	0	0	0	0	0
67		0	0	0	0	0	0	0	0	0	0	0	0
68		5	1	0	0	0	0	0	0	0	3	0	0
69	*	8*	10*	TRACE*	0*	0*	0*	0*	0*	0*	1*	3	*
70	*	7*	3*	3*	0*	0*	0*	0*	0*	0*	1*	6	*
71	*	7*	0*	4*	0*	0*	0*	0*	0*	0*	3*	TRACE	*
72	*TRACE*	TRACE*	TRACE*	0*	0*	0*	0*	0*	0*	0*	1*	0	*
76		2	TRACE	TRACE	0	0	0	0	0	0	TRACE*	1	0
77	*	2*	1	0	TRACE*	0*	0*	0*	0*	0*	1*	TRACE*	0
78	*	2*	4	TRACE	0*	0	0*	0*	0*	0*	TRACE*	4	*
79	*	3*	3	0	0	0	0*	0*	0*	0*	1*	1	*
80	*	2*	TRACE	TRACE	TRACE*	0	0*	0	0*	0*	4*	4	*
81	*	7*	3	0	8*	0	0*	0*	0*	0*	TRACE*	7	0
MEAN	3.3	2.7	.9	.5	.3	.0	.3	.0	.3	.3	.5	.9	4.7
S.D.	2.890	3.474	1.755	1.867	.000	.000	.000	.000	.000	.000	1.356	1.246	1.401
TOTAL OBS	702	637	707	685	732	717	757	773	745	762	717	742	8676

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM  
JUL 64

0-88-5 (OL A)

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- \*1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- \*2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

\*Values for means and standard deviations do not include measurements from incomplete months.

U.S. AIR FORCE  
 CLIMATE DIVISION  
 WASHINGTON, D.C.

# EXTREME VALUES

SURFACE WINDS

FROM DAILY OBSERVATIONS

12 STATION NAME

61-72, 77-81 YEARS

## DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1	*42WSW*40SW	*31WSW*36WSW	*31WSW*36WSW	*31WSW*36WSW	*31WSW*36WSW	*31WSW*36WSW	*31WSW*36WSW	*31WSW*36WSW	*31WSW*36WSW	*31WSW*36WSW	*31WSW*36WSW	*31WSW*36WSW	*31WSW*36WSW
2	*26NE*17W	*36SW*30W	*26W	*40W	*23W	*34NW	*40S	*32S	*43NW	*27			*S*57
3	*27SW	*32NW	*28W	*37WSW*29S	*39WSW	*35W	*42W	*39S	*45S	*40S	*35		*S*45
4	*48NW	*33W	*37S	*33WSW	*32S	*40NW	*44WSW	*26SSW	*30SW	*26SW	*49S	*46	*S*45
5	*43NW	*31SW	*48W	*28WSW	*39S	*31W	*34W	*27WSW	*32S	*30SSW	*35S	*77	*S*49
6	*34WSW	*48WSW	*31WSW	*28WSW	*53WSW	*22SW	*34WSW	*42WNW	*36S	*44S	*32S	*75	*S*53
7	*43SSW	*27WSW	*41W	*31WSW	*35W	*2824/	*3722/	*2627/	*2522*	*247*	*2125*	*24	*S*41
8	*24*	*2924*	*2223*	*2524*	*3127*	*3123*	*2722*	*3427/	*2825*	*2124*	*2021*	*4224*	*24
9	*23*	*2021*	*4024*	*3322*	*3425*	*3324*	*2826*	*3921*	*2627*	*3024*	*3426*	*3523*	*73
10	*22*	*3724*	*2824*	*3626*	*3624*	*2428*	*3724*	*3025*	*527/	*2423*	*3724*	*4023*	*71
11	*S*	*3825*	*2023*	*4724*	*4122*	*3723*	*326*	*2223*	*274*	*2124*	*2427*	*5724*	*4
12													*27*
13													*57
14													*49
15													*45
16													*45
17													*45
18													*45
19													*45
20													*45
21													*45
22													*45
23													*45
24													*45
25													*45
26													*45
27													*45
28													*45
29													*45
30													*45
31													*45
32													*45
33													*45
34													*45
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47													*45
48													*45
49													*45
50													*45
51													*45
52													*45
53													*45
54													*45
55													*45
56													*45
57													*45
58													*45
59													*45
60													*45
61													*45
62													*45
63													*45
64													*45
65													*45
66													*45
67													*45
68													*45
69													*45
70													*45
71													*45
72													*45
73													*45
74													*45
75													*45
76													*45
77													*45
78													*45
79													*45
80													*45
81													*45
82													*45
83													*45
84													*45
85													*45
86													*45
87													*45
88													*45
89													*45
90													*45
91													*45
92													*45
93													*45
94													*45
95													*45
96													*45
97													*45
98													*45
99													*45
100													*45
MEAN	41.1	34.1	38.9	31.9	37.1	32.1	35.0	30.8	37.4	33.8	40.2	40.9	37.7
S.D.	7.298	6.937	6.827	5.699	8.821	6.470	5.142	6.833	4.551	5.305	6.145	5.699	
TOTAL OBS	472	362	413	371	382	414	440	442	455	448	426	443	4998

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA) (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 10712 SEMBACH AB DL STATION NAME 65-68 YEARS JAN  
MONTH 0000-0200  
HOURS (LST)  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.5	.5	.5								2.2	6.6
NNE	1.3	.5	.3									2.2	3.4
NE	3.0	4.6	.8	1.1								9.4	5.5
ENE	3.0	2.2	1.9									7.0	4.9
E	1.1	1.9	1.1									4.0	5.3
ESE	.5	.3										.8	2.7
SE	.8											.3	2.3
SSE	.3											.3	3.0
S	2.2	.5	.3									3.0	3.4
SSW	1.1	1.9	1.6	.5								5.1	6.3
SW	1.3	3.2	5.4	2.4	2.7	.3						15.4	10.3
WSW	.8	2.2	7.8	5.9	2.4	.5						19.7	10.8
W	.5	2.2	3.8	2.2	.5	.3						9.4	9.5
WNW	.3	.3	.3									.8	8.0
NW	.5	.3										.8	3.3
NNW	1.3											1.3	2.4
VARBL	1.1											1.1	2.0
CALM												16.7	
	19.4	20.8	23.7	12.7	5.7	1.1						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 371

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17127 STATION NAME SEMBACH AB DL YEARS 65-68,77-81 MONTH JAN  
CLASS ALL WEATHER HOURS (LST) 3300-0500  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	.8	.4									2.9	4.3
NNE	1.3	1.3		.4								2.9	5.0
NE	2.9	3.1	1.3	.4								7.7	4.6
ENE	1.7	2.3	1.7	.2								5.8	5.4
E	.4	1.9	.6									2.9	4.9
ESE	.6	.8	.6									2.1	5.3
SE													
SSE		.4										.4	5.0
S	.6	.8	.4									1.9	4.7
SSW	1.3	1.3	1.7	.8								5.2	6.8
SW	1.3	4.8	6.5	4.6	.2	1.0						18.4	9.4
WSW	.8	3.5	5.6	4.8	1.5	.5						16.7	10.3
W	1.9	2.1	3.1	3.8	.6							11.5	8.7
WNW	.4											.4	2.0
NW	.2			.2								.4	8.0
NNW	1.7	.4	.2									2.3	3.3
VARBL	.8											.8	2.0
CALM												17.7	
	17.5	23.6	22.1	15.2	2.3	1.5						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 479

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

107120 STATION SEMBACH AB DL STATION NAME 65-68,77-81 YEARS JAN MONTH  
ALL WEATHER CLASS 2600-0800 HOURS (LST)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	.9	.1		.1							2.9	3.9
NNE	.4	1.4	.4									2.3	4.6
NE	2.3	3.9	1.7	.6								8.5	5.3
ENE	2.3	3.0	.7	.3								6.3	4.7
E	1.0	1.4	.9	.3								3.6	5.6
ESE	.1	.3	.1									.6	5.0
SE	.3											.3	2.5
SSE	.4	.3										.7	3.4
S	1.6	.7	.4	.3								3.0	4.8
SSW	1.4	1.3	2.0	.9								5.6	6.3
SW	1.1	3.9	4.4	6.3	1.6	.4						17.8	10.3
WSW	1.7	3.2	3.7	5.4	.6							14.6	9.2
W	2.0	2.1	3.7	2.3	.1	.3						10.6	8.1
WNW	.4	.3	.4	.4								1.6	7.2
NW	.6	.4	.3	.3								1.6	5.4
NNW	.9	1.0	.1									2.0	4.1
VARBL	1.0		.6	.1								1.7	4.8
CALM												16.5	
	19.3	24.1	19.8	17.2	2.4	.7						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 698



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 7120 STATION SEMBACH AB DL 65-68,77-81 YEARS JAN MONTH 0900-1100 HOURS (LST)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.1	.2									2.5	4.1
NNE	1.0	.9	1.1	.1	.5							3.6	7.4
NE	2.3	3.3	1.6	.1								7.4	5.0
ENE	2.2	2.2	1.5	.1								6.0	4.8
E	1.5	1.8	1.2	.2								4.8	5.0
ESE	.4	.2	.6									1.2	5.9
SE	.7	.1										.9	2.7
SSE		.4	.2	.2								.9	8.0
S	1.7	.5	.2	.1	.1							2.7	4.1
SSW	1.5	1.6	2.0	1.1	.1							6.2	7.2
SW	1.6	3.9	3.7	4.7	2.1	.7						16.7	14.4
WSW	1.1	4.0	5.8	5.8	.9	.1						17.6	9.5
W	1.8	3.1	2.7	2.1	.2							9.9	7.6
WNW	.5	.4	.5	.1								1.5	5.7
NW	.2	.6										.9	4.0
NNW	.6	.7	.1		.1							1.6	5.3
VARBL	.4		.2	.1								.7	5.0
CALM												15.1	
	18.6	24.9	21.7	14.8	4.0	.9						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 816

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7127 STATION SEMBACH AB DL STATION NAME 65-68,77-81 YEARS JAN MONTH  
ALL WEATHER CLASS 1200-1400 HOURS (L S Y)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.3	.9	.2								3.7	5.4
NNE	.6	1.8	1.1	.1	.2							3.9	6.5
NE	1.0	2.7	2.3	.6								6.6	6.2
ENE	1.6	4.6	1.7	.1								8.1	5.1
E	1.1	1.5	2.1	.2								4.9	6.4
ESE	.6	.5	.1									1.2	3.7
SE	.2	.4	.1									.7	4.7
SSE	.1	.4	.1									.6	5.4
S	.6	.5	.7	.7								2.6	8.0
SSW	.1	1.3	1.5	.5	.1							3.5	7.8
SW	1.1	3.4	5.1	4.3	1.8	1.2						17.0	10.8
WSW	1.2	4.2	6.1	5.4	.9	.7						18.5	9.9
W	1.3	2.7	5.5	3.7	.2							13.4	8.7
WNW	.6	.6	.2	.1								1.6	4.8
NW	1.6	1.0	.5									3.1	4.0
NNW	.6	1.1	.6	.4								2.7	6.0
VARBL			.6									.6	8.4
CALM												7.3	
	13.7	28.0	29.3	16.4	3.3	2.0						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 818

1  
2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 7127 SEMBACH AB DL STATION NAME 65-68,77-81 YEARS JAN  
ALL WEATHER 1530-1700  
 CLASS NOON (LST)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.8	1.0	.1	.1							4.5	5.4
NNE	1.3	3.2	1.6		.4							6.5	5.8
NE	1.8	4.9	2.0	.5								9.2	5.6
ENE	1.5	3.1	2.0	.1								6.6	5.3
E	.6	2.0	1.7	.2								4.5	6.2
ESE	.2	.4	.1									.7	4.8
SE	.1											.1	2.0
SSE	.2	.2										.5	3.8
S	.6	1.0	1.3	1.0								3.9	7.5
SSW	.1	1.0	1.7	1.0	.2							4.0	9.0
SW	.4	2.7	5.1	3.8	.7	.4	.2					13.3	10.6
WSW	2.8	3.5	5.9	5.3	1.7	.4						19.5	9.5
W	1.1	2.6	3.7	3.4	.1	.2						11.1	8.8
WNW	1.3	.6	.6	.2								2.8	4.8
NW	.7	.7	.4									1.8	4.5
NNW	1.2	.7	.7	.1								2.8	4.7
VARBL		.1	.1	.2								.5	9.0
CALM												7.6	
	15.6	28.4	27.8	16.0	3.3	1.0	.2					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 819

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 17120 STATION NAME SEMBACH AB DL YEARS 65-68, 77-81 MONTH JAN  
CLASS ALL WEATHER PERIOD 1800-2000  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.3	.6	.1								3.7	4.5
NNE	.7	.9	.6	.3	.3							2.7	7.2
NE	3.0	4.0	1.9	.1								9.1	4.9
ENE	2.6	2.7	1.6	.3								7.2	4.9
E	1.7	2.3	1.1									5.2	4.8
ESE	.1	.3	.1	.3								.9	7.2
SE	.6	.1										.7	2.2
SSE	.4	1.0	.1									1.6	4.5
S	1.7	.7	.3	.6								3.3	4.9
SSW	.9	1.7	2.0	1.4								6.0	7.5
SW	.6	2.0	5.5	3.3	1.0	.4						12.8	10.2
WSW	1.6	2.9	6.3	3.3	2.0	.4	.1					16.7	9.8
W	.9	.9	4.0	2.0	.6							8.3	9.1
WNW	1.0	.1	.4	.1								1.7	4.8
NW	.7	.7	.1									1.6	3.9
NNW	.3	.4	.3									1.2	4.7
VARBL	.1	.1		.3								.6	8.3
CALM												17.0	
	18.7	22.3	25.0	12.2	3.9	.9	.1					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 696

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,77-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.4										2.7	3.5
NNE	1.9	1.2	.7	.2	.2							4.1	5.1
NE	1.0	5.0	2.1	.7								8.7	5.8
ENE	1.4	2.2	1.7	.2								5.5	5.5
E	1.0	2.1	.9									3.9	5.0
ESE	.2		.2									.3	4.0
SE	.9	.2										1.0	2.2
SSE	.3	.2										.5	2.3
S	1.0	1.2	1.0	.3	.2							3.8	6.5
SSW	1.2	1.7	2.1	.7								5.6	6.8
SW	1.5	3.2	6.8	2.2	1.7	.5						16.1	9.5
WSW	.9	2.2	5.3	5.0	1.4	.5	.5					15.7	11.3
W	.9	2.1	4.3	1.4	.2							8.7	8.0
WNW	.5	.3	.3	.2								1.4	5.4
NW	.3	.2	.2									.7	4.3
NNW	.3	.5	.2									1.0	4.7
VARBL	.2		.2									.3	5.5
CALM												19.8	
	14.9	23.6	25.8	10.8	3.6	1.0	.5					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

585

2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 SEMBACH AB DL 65-68,77-81 JAN  
STATION STATION NAME YEARS NORTH  
ALL WEATHER CLASS ALL  
CONDITION HOURS (L S T)

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.2	.5	.1	.0							3.2	4.7
NNE	1.0	1.5	.8	.1	.2							3.7	6.0
NE	2.1	3.9	1.8	.5								8.2	5.4
ENE	2.7	2.9	1.6	.2								6.6	5.1
E	1.1	1.8	1.3	.2								4.3	5.5
ESE	.3	.3	.2	.0								1.0	5.0
SE	.4	.1	.0									.6	2.8
SSE	.2	.4	.1	.0								.7	4.8
S	1.2	.7	.6	.4	.0							3.0	5.8
SSW	.9	1.4	1.8	.9	.1							5.1	7.2
SW	1.1	3.4	5.2	4.1	1.5	.6	.0					15.8	10.2
WSW	1.5	3.3	5.7	5.1	1.3	.4	.1					17.4	9.9
W	1.3	2.3	3.9	2.6	.3	.1						10.5	8.5
WNW	.7	.4	.4	.2								1.6	5.3
NW	.7	.5	.2	.1								1.5	4.4
NNW	.8	.7	.3	.1	.0							1.9	4.7
VARBL	.4	.0	.2	.1								.8	5.5
CALM												14.0	
	17.0	24.9	24.6	14.7	3.5	1.1	.1					100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 5282

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 7120 SEMBACH AB DL 65-68,77,79 FEB  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
0000-0200  
HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.1	2.3	.3								4.0	6.4
NNE	.6	.9	1.4									2.8	5.9
NE	2.3	4.8	3.7									10.8	5.7
ENE	1.7	2.8	1.4									6.0	5.0
E	1.4	.3	1.1									2.8	4.8
ESE	.3			.3								.6	7.0
SE			.3									.3	7.0
SSE	1.1	.3										1.4	3.2
S	1.1	.6	.3									2.0	4.1
SSW	2.0	1.7	1.1	.9								5.7	5.9
SW		1.4	4.3	3.7	.3							9.7	9.9
WSW	1.4	3.4	6.6	4.8	1.1	.3						17.7	9.5
W	2.3	2.0	1.1	2.8								8.3	7.6
WNW	.3	.9	.3	.3								1.7	6.8
NW		.6										.6	4.5
NNW	.6	.3		.3								1.1	5.0
VARBL	1.1											1.1	1.8
CALM												22.5	
	17.4	21.1	23.9	13.4	1.4	.3						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 351

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 12120 STATION NAME SEMBACH AB DL YEARS 65-68,76-81 MONTH FEB  
CLASS ALL WEATHER HOURS (LST) 0300-0500  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7	2.5									4.5	6.0
NNE	2.2	1.6	.9	.2								4.9	4.4
NE	2.9	4.9	4.0	.4								12.3	5.7
ENE	2.9	2.0	1.8	.4								7.2	5.2
E	1.3	1.3	.2									2.9	4.2
ESE	.4	.4										.9	3.0
SE	.2											.2	3.0
SSE	.7	.2	.2									1.1	3.8
S	2.2	1.1										3.4	3.1
SSW	1.1	2.0	1.1	.4	.2							4.9	6.5
SW	.7	2.0	5.4	2.9								11.0	8.9
WSW	1.6	2.2	5.1	4.7	1.6	.4	.4					16.1	10.8
W	.4	2.0	3.6	1.1								7.2	7.9
WNW	.2	.4										.7	4.2
NW	.2	.4		.2								.9	6.3
NNW	.9	.2	.7									1.8	4.8
VARBL	.4			.2								.7	6.3
CALM												19.5	
	19.9	21.7	25.5	10.7	1.8	.4	.4					100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 447



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 7120  
STATION

SEMBACH AB DL

STATION NAME

65-68,76-81

YEARS

FEB  
MONTH

0600-0800  
HOURS (LST)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.7	.6	.1								4.3	4.2
NNE	2.6	1.5	.8	.3								5.2	4.5
NE	2.6	5.0	2.8	1.1								11.5	5.8
ENE	2.3	4.7	3.2	1.0								11.2	5.8
E	1.1	.8	.4	.1								2.5	4.7
ESE	1.0	.4	.1									1.5	3.8
SE	.8	.4										1.2	2.9
SSE	1.7	.6	.1									1.7	3.3
S	1.1	1.1	.3	.1								2.6	4.8
SSW	1.5	1.2	1.0	.8								4.6	6.4
SW	1.5	2.9	2.9	3.9	.3	.1						11.6	9.0
WSW	1.1	3.0	2.1	4.4	.3	.3						11.2	9.4
W	1.1	2.3	2.2	1.4	.1	.1	.1					7.5	8.1
WNW	.8		.3	.1								1.2	4.9
NW	.3	.1	.4	.3								1.1	7.5
NNW	.6	.6										1.1	3.1
VARBL	.1	.1		.1								.4	6.0
CALM												19.6	
	21.5	26.5	17.1	13.8	.7	.6	.1					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

724

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 7120 STATION NAME SEMBACH AB DL YEARS 65-68, 76-81 MONTH FEB  
CLASS ALL WEATHER HOURS (LST) 0900-1100  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.3	.5	.2								3.0	4.9
NNE	2.0	1.2	1.2	.4								4.8	5.4
NE	2.3	3.5	4.0	1.0								10.7	6.4
ENE	2.8	2.3	3.6	.2								8.9	5.8
E	2.0	1.8	1.4	.5								5.8	5.4
ESE	1.1	.5	.4									1.9	4.1
SE	1.1	.5										1.6	3.1
SSE	1.3	.6	.1									2.0	2.8
S	1.6	1.8	.6									4.0	4.2
SSW	1.6	.7	1.3	.7								4.3	6.1
SW	.6	2.2	3.8	3.6	.5							10.7	9.4
WSW	1.6	1.8	4.7	5.3	.6	.5	.2					14.7	10.5
W	1.1	1.4	2.8	1.9	.4							7.6	8.5
WNW	.4	.7	.2	.1								1.4	5.5
NW	.2	.2	.5	.1								1.1	7.7
NNW	1.1	.6	.4									2.0	3.9
VARBL	.2		.4									.6	5.6
CALM												14.9	
	21.9	21.2	25.8	14.1	1.4	.5	.2					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 832

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17120 SEMBACH AB DL STATION NAME 65-68,76-81 YEARS FEB MONTH  
CLASS ALL WEATHER  
CONDITION 1200-1400 HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.4	.7									4.2	4.5
NNE	1.2	2.5	2.2	.6								6.5	6.3
NE	1.4	4.6	4.6	1.6								12.1	7.0
ENE	.8	2.3	3.7	.7	.1							7.7	7.4
E	.7	1.1	1.6	.5								3.8	6.8
ESE	.6	.2	.5	.4								1.7	6.3
SE	1.0	.2	.1									1.3	3.2
SSE	1.2	.6	.1									1.9	3.1
S	1.0	1.1	.4	.2								2.6	5.0
SSW	1.3	1.1	1.2	.6	.1	.1						4.4	7.1
SW	1.1	3.0	2.9	3.6	.8		.1					11.5	9.4
WSW	1.4	1.8	5.2	5.8	1.4	.2	.4					16.2	11.0
W	.5	1.8	4.1	2.8	.6							9.7	9.4
WNW	.6	.4	.2	.1								1.3	4.5
NW	.4	1.1	1.0	.2	.1							2.8	7.3
NNW	.5	1.7	1.4	.1								3.7	6.1
VARBL	.4	.2	.7	.1								1.4	6.9
CALM												7.0	
	15.1	26.1	30.5	17.3	3.2	.4	.5					100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 833

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 7120 STATION NAME SENBACH AB DL YEARS 65-68, 76-81 MONTH FEB  
CLASS ALL WEATHER HOURS (L & T) 1500-1700  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.8	.7	.1								4.5	5.4
NNE	1.1	3.4	1.8	.5								6.7	5.9
NE	1.7	7.2	4.6	1.6								15.1	6.5
ENE	1.0	3.1	2.8	.5								7.3	6.2
E	1.2	1.4	1.1	.4								4.1	5.6
ESE	.2	1.1	.1	.2								1.7	5.7
SE	.8	.8	.1									1.8	4.1
SSE	1.1	1.2	.1									2.4	3.8
S	.8	1.8	.4									3.3	4.4
SSW	.7	2.4	.7	1.0								4.8	6.6
SW	.7	2.2	2.5	3.7	1.2							13.4	10.1
WSW	.6	1.9	4.6	5.8	1.1							14.0	10.4
W	1.4	1.8	3.0	1.8	.5	.1						8.7	8.4
WNW	1.0	.6	1.0									2.5	4.9
NW	.1	1.3	.4	.2								2.0	6.2
NNW	.6	1.7	1.0	.4								3.6	6.3
VARBL	.2	.1	.4	.5								1.2	7.7
CALM												6.1	
	14.2	34.9	25.2	16.6	2.8	.1						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 830

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 7120 SEMBACH AB DL STATION NAME 65-68,76-81 YEARS SEP NORTH  
ALL WEATHER CLASS 1800-2000 HOURS (LST)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	1.0									2.4	5.5
NNE	1.5	3.3	1.4	.1								6.4	5.1
NE	3.9	5.7	2.6	1.4								13.6	5.5
ENE	2.5	3.9	1.1	.1								7.6	4.6
E	2.2	1.7	.8	.1								4.9	4.2
ESE	.6	1.1		.1								1.8	4.2
SE	1.1	.8	.1									2.1	3.4
SSE	1.4	.8										2.2	3.0
S	2.6	.8	.3									3.3	3.1
SSW	1.4	1.0	1.1	.1								3.6	5.0
SW	1.7	1.5	2.2	4.0	.1	.1						9.7	9.1
WSW	.6	1.8	2.9	3.6	.3							9.2	9.6
W	2.2	2.8	2.9	1.4	.4							9.7	7.3
WNW	.3	1.0	.6	.8								2.6	7.9
NW	.6	.1										.7	2.8
NNW	1.3	.8	.1									2.2	3.6
VARBL	.3	.1	.3									.7	5.8
CALM												16.7	
	24.8	28.1	17.5	12.0	.8	.1						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 719

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFD WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL STATION NAME 65-68,76-81 YEARS FEB MONTH  
ALL WEATHER CLASS 2100-2300 HOURS (LST)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.5	1.0									3.7	5.1
NNE	1.2	1.7	1.2	.2								4.2	5.3
NE	3.9	3.4	3.5	1.0								11.8	5.7
ENE	2.4	2.7	2.0	.5								7.6	5.5
E	2.2	.3	.7	.3								3.5	4.6
ESE	.7	.5	.2	.2								1.5	5.1
SE	1.0	.2	.2									1.3	2.9
SSE	.8	.5	.7									2.0	5.1
S	2.0	1.7	.5									4.2	3.6
SSW	1.7	1.0	.5	.7								3.9	5.8
SW	1.0	2.2	3.9	2.4	.3	.2						9.9	6.9
WSW	1.9	1.5	3.2	3.5	1.0							11.1	9.6
W	1.0	1.7	1.5	1.9	.3							6.4	6.8
WNW	.2	.2	.3	.3								1.0	8.2
NW	.2	.3	.5	.2								1.2	7.3
NNW	.7	.5	.2									1.3	4.1
VARBL	1.0		.2	.2								1.3	3.6
CALM												23.8	
	22.9	19.9	20.2	11.3	1.7	.2						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 593

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 7120 STATION SEMBACH AB DL 65-68,76-81 YEARS FEB MONTH  
STATION NAME CLASS ALL HOURS (LST)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.6	1.0	.1								3.8	5.1
NNE	1.6	2.1	1.4	.3								5.5	5.4
NE	2.6	4.9	3.8	1.1								12.4	6.1
ENE	2.0	3.0	2.6	.5	.0							8.1	5.8
E	1.5	1.2	1.0	.3								4.0	5.2
ESE	.6	.6	.2	.2								1.6	4.8
SE	.8	.4	.1									1.4	3.4
SSE	1.1	.7	.2									1.9	3.4
S	1.5	1.3	.4	.1								3.2	4.0
SSW	1.4	1.4	1.0	.7	.0	.0						4.4	6.2
SW	1.0	2.3	3.3	3.5	.5	.1	.0					10.6	9.4
WSW	1.2	2.1	4.1	4.8	.9	.2	.1					13.5	10.2
W	1.2	2.0	2.8	1.9	.3	.0	.0					8.1	8.3
WNW	.5	.5	.4	.2								1.6	5.9
NW	.3	.6	.4	.2	.0							1.4	6.7
NNW	.8	.9	.5	.1								2.3	5.1
VARBL	.4	.1	.3	.2								.9	5.8
CALM												15.0	
	19.6	25.6	23.4	14.0	1.8	.3	.2					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 5329

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68, 78, 80-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.2	1.0	.2								2.5	7.2
NNE	.7	1.0										1.7	3.7
NE	.5	2.7	1.0	.5								4.7	6.4
ENE	.7	2.0	1.0									3.7	5.7
E	.7	.2										1.0	2.8
ESE	.2	.2										.5	3.5
SE	.7	.2										1.0	2.5
SSE	.2											.2	2.0
S	.5	1.5										2.0	4.0
SSW	.2	.7	1.2	.7								2.9	8.2
SW	.5	2.2	3.9	4.9								11.5	9.6
WSW	1.7	2.2	4.4	4.9	1.0	.2						14.5	10.0
W	1.7	3.7	4.4	2.9	.2							13.0	7.9
WNW	1.0	1.2	1.2									3.4	5.0
NW		1.0		.5								1.5	7.7
NNW	.2	1.0	.2									1.5	5.0
VARBL	.7	.2										1.0	1.8
CALM												33.4	
	10.6	21.4	18.4	14.7	1.2	.2						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

407



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

1 7120  
STATION

SEMBACH AB DL

STATION NAME

65-68,77-81

YEARS

MAR  
MONTH

ALL WEATHER

CLASS

0300-0500

HOURLY (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	.8									2.0	5.2
NNE	1.0	1.2	.2									2.4	4.0
NE	1.2	2.2	1.4	.4								5.1	5.8
ENE	.8	1.6	1.0									3.3	5.2
E	1.0	.4										1.4	2.4
ESE		.6										.6	5.3
SE	.2											.2	2.0
SSE													
S	.8	.6	.2									1.6	3.5
SSW	.4	.8	2.0	.4								3.5	7.5
SW	1.6	2.0	5.1	3.5	1.8							13.9	9.8
WSW	1.6	3.5	4.3	6.3	1.0	.4						17.1	9.9
W	2.4	3.3	4.7	3.5	.2	.4						14.5	8.0
WNW	.6	.4	.4									1.4	4.7
NW	.2		.4									.6	5.7
NNW	1.0	1.0	.4									2.4	4.5
VARBL	.8											.8	1.8
CALM												29.3	
	13.9	18.1	20.8	14.1	2.9	.8						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

509

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF Weather Service/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

1 7120 STATION SEMBACH AB DL STATION NAME 65-68,76-81 YEARS MAR MONTH  
ALL WEATHER CLASS 0600-0800 HOURS (LST)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.5	.7									2.2	4.8
NNE	1.4	.9	.9	.2								3.3	5.5
NE	1.5	3.2	2.9	.2								7.8	6.0
ENE	1.1	2.0	1.7	.4								5.2	6.0
E	1.0	.1	.2									1.4	3.1
ESE	.6	.4										1.0	3.4
SE	.1											.1	2.0
SSE	.5	.1	.1									.7	3.0
S	1.2	.5	.5	.1								2.4	4.5
SSW	1.2	1.6	.9	.6								4.3	5.9
SW	1.7	2.7	5.2	5.6	1.1	.2						16.6	9.9
WSW	1.4	4.1	5.0	5.8	1.9	.1						18.2	9.9
W	.7	3.2	3.6	1.1	.1							8.8	7.3
WNW	.2	.2	.2									.7	4.5
NW	.1	.2	.5	.2								1.1	7.3
NNW	.7	.6	.1	.4								1.9	5.6
VARBL	.1											.1	3.0
CALM												23.9	
	14.8	20.5	22.6	14.8	3.1	.4						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 806

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

1 7120  
STATION

SEMBACH AB DL

STATION NAME

65-68,76-81

YEARS

MAR  
MONTH

ALL WEATHER

CLASS

0900-1100

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.4	.6	.2								2.6	6.2
NNE	.2	1.6	1.6	.1								3.6	6.8
NE	1.3	1.4	1.2	.3								4.2	5.8
ENE	1.1	3.3	1.9	1.0								7.3	6.4
E	.6	.6	1.8	.5	.1							3.8	7.6
ESE	.9	.2	.1	.1								1.3	3.8
SE	.3	.3	.1	.1								.9	5.3
SSE	.6	.4	.2									1.3	4.0
S	1.0	.6	.6	.2								2.5	5.4
SSW	.6	1.1	1.4	1.6	.2	.1						5.1	9.2
SW	1.1	1.7	5.6	6.6	1.3	.6		.1				17.1	11.2
WSW	1.3	3.5	7.0	5.6	1.7	.2	.1					19.4	10.1
W	.9	1.6	4.5	4.5	.5							12.1	9.8
WNW	.4	1.0	.6		.1							2.2	6.1
NW	.3	1.3	.6	.5								2.8	7.2
NNW	.9	.6	.8	.1								2.4	5.2
VARBL	.5	.1	.6	.1								1.4	5.8
CALM												10.2	
	12.4	21.0	29.6	21.7	9.0	1.0	.1	.1				100.2	7.7

TOTAL NUMBER OF OBSERVATIONS

926

1  
2  
FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

07120 STATION SEMBACH AB DL 65-68,76-81 YEARS MAR MONTH  
1200-1400 HOURS (LST)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.3	1.2	.3								3.9	5.6
NNE		1.4	1.3	.3								3.0	7.1
NE	.5	1.9	2.7	.6	.1							5.9	7.5
ENE	.4	1.7	1.4	1.2	.1							4.8	8.0
E	.5	1.4	1.9	.4	.1							4.4	7.1
ESE	.3	.2	.6	.1								1.3	6.5
SE	.3	.2	.3									.9	5.1
SSE	.5	.6	.1									1.3	4.5
S	.3	.5	.9	.3								2.0	7.3
SSW	.5	1.0	2.4	1.8	.5	.1						6.3	10.1
SW	.2	1.1	4.6	4.4	1.1	.8	.1					12.3	12.0
WSW	.6	2.8	5.7	8.5	1.6	.5						19.8	11.2
W	1.1	3.1	6.6	6.7	.9	.2						18.5	10.0
WNW	.3	.9	1.2	.8								3.1	7.8
NW	.5	.2	1.1	.4								2.3	7.5
NNW	1.1	1.4	1.2	.1								3.8	5.7
VARBL	.8	.3	1.6	.9	.1	.1						3.8	8.5
CALM												2.7	
	9.2	20.1	34.7	26.9	4.5	1.7	.1					100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 7120 STATION SEMBACH AB DL 65-68,76-81 YEARS MAP NORTH  
STATION NAME CLASS 1500-1700  
HOURS (LST)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.1	1.6	.3								3.9	6.1
NNE	.6	1.4	1.2									3.2	5.8
NE	.9	2.9	2.9	1.0	.1							7.8	7.0
ENE	.9	1.3	1.6	1.1								4.8	7.4
E	.5	1.4	1.1	.6								3.7	6.8
ESE	.1	.5	1.1	.2								1.9	7.6
SE	.1	.3	.4									.9	6.6
SSE	.6	1.1	.3									2.0	4.6
S	.1	1.1	.8	.2	.1							2.3	7.3
SSW	.2	1.2	2.5	1.6	.4	.1						6.0	9.9
SW	.2	1.5	3.9	6.6	1.1	.3	.2					13.8	11.7
WSW	.6	1.8	5.2	5.6	2.5	.4						16.1	11.6
W	.8	2.4	7.1	5.8	1.1	.1						17.2	10.1
WNW	.9	1.1	2.4	1.0								5.3	7.6
NW	.3	1.7	1.0	.8								3.0	7.5
NNW	.5	2.4	1.3	.1								4.3	5.8
VARBL	.3	.2	1.0	.2								1.7	7.2
CALM												2.0	
	8.6	22.6	35.2	25.1	5.3	1.0	.2					100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.9	1.2	.5								3.7	6.1
NNE	1.5	.7	.5	.4								3.1	5.1
NE	1.7	2.6	1.2	1.0								6.6	6.3
ENE	1.6	3.0	3.4	.6								8.6	6.4
E	2.6	1.4	.4									4.4	3.4
ESE	1.1	.4	.2									1.7	3.5
SE	1.0	.4										1.4	2.9
SSE	1.1	.4	.1									1.6	3.3
S	.7	2.9	1.1									4.7	5.1
SSW	1.5	2.1	1.9	1.0								6.5	6.6
SW	.6	1.7	3.2	5.6	.5	.1						11.8	10.4
WSW	1.0	3.7	2.7	2.5	.5							10.5	8.3
W	1.7	4.5	5.4	3.1	.6							15.3	8.3
WNW	1.0	1.5	1.7	.9								5.1	6.7
NW	1.2	.5	.9									2.6	5.0
NNW	.6	1.7	.4									2.7	4.5
VARBL	.1		.1									.2	4.5
CALM												9.3	
	20.4	28.4	24.5	15.6	1.6	.1						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 803

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMPACH AB DL

STATION NAME

65-68,76-81

YEARS

MAR

MONTH

ALL WEATHER

CLASS

2100-2300

HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.0	1.0									2.8	5.6
NNE	.7	.6	.4	.3								2.1	5.5
NE	2.2	1.9	1.5	.1								5.8	5.1
ENE	1.8	2.2	1.6	.4								6.1	5.8
E	1.5	.6	.4	.1								2.7	4.2
ESE	1.2	.1										1.3	2.4
SE	.4	.1										.6	2.8
SSE	1.6	.1										1.8	2.0
S	1.2	1.2	1.0									3.4	4.8
SSW	1.0	.9	1.6	.9								4.5	7.3
SW	.9	2.7	3.9	3.4	.3							11.2	6.7
WSW	1.3	2.8	2.7	3.6	.4	.1						11.1	9.1
W	1.8	4.0	3.4	1.9	.3							11.5	7.5
WNW	1.2	.9	1.2									3.3	5.5
NW	.7	.6	.3	.1								1.8	4.8
NNW	.7	1.6	.3									2.7	4.6
VARBL	.4		.3									.7	3.8
CALM												26.3	
	19.8	21.7	19.9	11.1	1.0	.1						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

668

7  
2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 07120 SEMBACH AB DL STATION NAME 65-68,76-81 YEARS MAR MONTH ALL WEATHER CLASS ALL HOURS (L S Y) CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.3	1.1	.2								3.1	5.8
NNE	.7	1.1	.9	.2								2.9	5.8
NE	1.2	2.3	2.0	.6	.0							6.1	6.4
ENE	1.1	2.2	1.8	.7	.0							5.7	6.5
E	1.1	.9	.9	.3	.0							3.1	5.6
ESE	.6	.3	.3	.1								1.3	4.9
SE	.4	.2	.1	.0								.8	4.3
SSE	.7	.4	.1									1.3	3.7
S	.7	1.1	.7	.1	.0							2.7	5.4
SSW	.8	1.2	1.8	1.2	.2	.1						5.2	8.4
SW	.8	1.9	4.5	5.3	.9	.3	.1	.0				13.8	10.6
WSW	1.1	3.1	4.8	5.5	1.4	.3	.0					16.1	10.2
W	1.3	3.1	5.1	3.9	.6	.1						14.1	9.0
WNW	.7	.9	1.2	.4	.0							3.1	6.6
NW	.5	.6	.7	.4								2.1	6.7
NNW	.8	1.3	.7	.1								2.8	5.3
VARBL	.5	.1	.6	.2	.0	.0						1.3	6.7
CALM												14.5	
	13.5	21.9	27.0	19.0	3.2	.7	.1	.0				100.7	7.0

TOTAL NUMBER OF OBSERVATIONS 5978



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120  
STATION

SEMBACH AB DL

STATION NAME

65-68,79,81

YEARS

APR  
MONTH

ALL WEATHER

CLASS

0000-0200

HOURS (L S T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.5	.7									4.6	4.7
NNE	.7	1.6	1.1									3.4	5.6
NE	.5	5.3	1.8	.2								7.8	5.8
ENE	1.8	2.3	.7									4.8	4.2
E	.5	.9	.2									1.6	4.4
ESE													
SE	.5											.5	1.5
SSE	.2											.2	1.0
S	.5	.5										.9	3.5
SSW	.5	.9	.7									2.1	5.6
SW	1.1	2.3	3.2	1.1	.2							8.0	7.6
WSW	1.8	1.4	3.4	.9								7.6	6.8
W	2.1	1.4	1.8	.7								6.0	6.0
WNW	.9											.9	2.3
NW	.5	1.1										1.6	3.9
NNW	1.1	1.6	.7									3.4	4.7
VARBL	2.1		.5									2.5	2.6
CALM												43.9	
	16.1	21.8	14.9	3.0	.2							100.0	3.1

TOTAL NUMBER OF OBSERVATIONS

435

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

10712 STATION SEMBACH AB DL STATION NAME 65-68,77-81 YEARS  
APR MONTH  
0300-0500 HOURS (LST)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.7	1.3									3.7	5.7
NNE	1.7	1.5	.4									3.5	4.1
NE	1.7	5.1	2.0	.2								9.0	5.3
ENE	1.7	.4	.2	.2								2.4	3.9
E	.7	.2										.9	2.4
ESE													
SE													
SSE	.6											.6	2.0
S	.7	.2										.9	2.6
SSW	.9	1.5	.2	.2								2.8	4.6
SW	1.3	2.0	2.6	.9	.2							7.0	6.9
WSW	2.9	4.0	2.6	.2								9.7	5.3
W	1.8	1.8	2.4	1.3	.2							7.5	7.1
WNW	.7	.4	.2									1.3	4.0
NW	.4	.6										.9	3.8
NNW	1.1	2.4	.7	.2								4.4	5.0
VARBL	.9	.4	.2									1.5	3.9
CALM												44.0	
	17.8	22.0	12.7	3.1	.4							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 545

7  
2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

APR  
MONTH  
0600-0800  
HOURS (LST)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.2	1.1									4.4	5.3
NNE	1.2	1.9	2.3	.2								5.7	6.1
NE	2.3	3.8	3.7	.6								10.5	6.0
ENE	1.9	1.9	1.1	.1								4.9	4.6
E	.5	.2		.1								.9	4.4
ESE	.2	.2										.5	3.0
SE	.1											.1	2.0
SSE	1.1	.2										1.4	2.5
S	1.4	.4										1.7	2.4
SSW	1.0	.7	.5	.1								2.3	4.9
SW	1.4	2.6	2.3	1.5	.2							8.0	7.5
WSW	2.6	3.3	4.1	1.6	.2							11.9	7.2
W	1.6	2.1	2.5	.7	.1							7.0	6.5
WNW	1.0	.2										1.2	2.7
NW	.4	.5	.1									1.0	4.0
NNW	1.4	1.1	1.6									4.1	5.2
VARBL	.4		.5									.9	6.6
CALM												33.4	
	19.5	21.5	19.9	5.1	.6							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 17120 STATION NAME SEMBACH AB DL YEARS 65-68,76-81 MONTH APR  
CLASS ALL WEATHER HOURS (L S T) 0900-1100  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	3.1	1.9	.1								6.8	5.3
NNE	.6	2.1	2.3	.6								5.6	6.8
NE	.8	4.0	4.3	1.6								10.6	7.5
ENE	1.8	2.6	3.2	1.1	.1							8.8	6.8
E	.7	1.3	.6	.3								2.9	6.1
ESE	.7	.4	.4	.3								1.9	6.7
SE	.1	.6	.6									1.2	6.1
SSE	.6	.3										.9	3.3
S	.2	.3	.2	.1								.9	5.6
SSW	1.0	1.9	1.5	.2								4.6	6.0
SW	1.1	1.6	3.1	2.2	.4							8.5	8.9
WSW	1.3	2.2	6.2	4.5	.7							14.9	9.2
W	2.0	2.2	4.8	2.0	.2							11.3	7.8
WNW	.4	.8	1.1	.3								2.7	7.0
NW	.7	1.9	1.1	.1								3.8	5.8
NNW	.8	2.0	.8	.2								3.8	5.4
VARBL	.8	.7	2.1	.2								3.8	6.6
CALM												6.9	
	15.2	28.2	34.2	14.0	1.5							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 894

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 7120 STATION SEMBACH AB DL 65-68,76-81 APP NORTH  
STATION STATION NAME YEARS  
ALL WEATHER CLASS 1200-1400  
CONDITION HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	3.3	2.1	.3								7.5	5.6
NNE	.6	1.9	1.3	1.5	.1							5.4	8.1
NE	.4	1.9	4.1	2.1	.1							8.7	8.9
ENE	1.1	2.4	4.4	1.3								9.2	7.2
E	.7	1.6	2.5	.7	.1							5.5	7.4
ESE	.2	.8	1.0	.3								2.4	7.5
SE	.1	.6										.7	4.7
SSE	.1	.3	.2	.1								.8	5.9
S	.3	.4	.4	.1								1.3	5.8
SSW	.2	.7	1.3	.3	.2							2.8	8.6
SW	.7	1.6	3.5	2.5	.6		.1	.1				9.0	10.1
WSW	1.5	2.2	4.4	6.1	.6	.1	.1					14.9	9.8
W	.8	3.5	5.2	2.4	.3							12.1	8.3
WNW	1.0	.8	1.3	.3								3.5	6.2
NW	.6	.7	.8	.1								2.1	6.3
NNW	.9	1.8	2.7	.8	.1							6.3	7.2
VARBL	.6	.8	3.1	1.7	.1							6.3	8.9
CALM												1.6	
	11.5	25.1	38.5	20.6	2.2	.1	.2	.1				100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 892

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17100 SEMBACH AB DL 65-68,76-81 APR  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
1500-1700  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.5	2.5	.2	.1							6.1	6.6
NNE	.6	2.5	1.6	1.0								5.7	7.1
NE	.2	2.8	5.1	2.0	.1							10.3	8.6
ENE	.7	2.7	3.2	.7	.3							7.6	7.7
E	.8	2.0	2.1	.1								5.1	6.0
ESE		.9	.9	.2								2.0	7.2
SE	.2	.6	.9	.1								1.8	6.2
SSE	.8	.7	.1									1.6	4.1
S	.9	.9	.1									1.9	3.8
SSW	.8	.9	1.0	.1	.2							3.1	6.8
SW	.5	1.6	2.9	2.5	.2							7.7	9.5
WSW	.6	2.8	6.3	2.7	.6							13.0	9.2
W	1.0	3.6	6.1	3.3	.2							14.3	8.4
WNW		1.0	.8	.2								2.0	6.9
NW	1.0	1.6	.7									3.3	5.0
NNW	1.0	2.4	2.6	1.4	.1							7.5	7.6
VARBL	.3	.8	2.6	.6								4.3	7.9
CALM												2.8	
	10.2	30.3	39.6	15.2	1.9							100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 884

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	3.2	3.3	.8								8.0	6.8
NNE	2.1	2.1	1.0	.5								5.8	5.3
NE	2.5	4.5	4.9	2.5								14.5	7.7
ENE	1.3	3.2	1.3	.1								5.8	5.2
E	2.0	2.8	.9									5.7	4.3
ESE	.4	.6	.6									1.6	5.8
SE	.1	.4										.5	3.8
SSE	.5	.4										.9	3.7
S	.3	.4	.3									.9	4.9
SSW	.6	.8	1.4	.5								3.3	7.0
SW	.5	2.5	2.5	1.1	.5							7.2	8.4
WSW	2.0	3.4	3.4	1.0	.3							10.1	6.7
W	2.4	4.7	3.7	1.1								11.9	6.2
WNW	1.6	1.6	.8	.1								4.2	4.9
NW	.6	.9	.5									2.0	4.8
NNW	1.9	2.5	1.8	.5								6.7	6.1
VARBL	.5	.3	.3									1.0	4.8
CALM												10.0	
	20.3	34.1	26.5	8.3	.8							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 792

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120  
STATION

SEMBACH AB DL

STATION NAME

65-68,76-81

YEARS

APR

MONTH

ALL WEATHER

CLASS

2100-2300

HOURLS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	2.8	1.3	.4								6.2	5.4
NNE	1.5	1.0	1.3	.1								4.0	5.1
NE	1.6	4.1	2.6	1.6								10.0	6.7
ENE	1.8	2.4	1.8	.1								6.0	5.3
E	1.3	1.6	.3									3.2	3.8
ESE	.3	.3	.3									.9	4.8
SE	.4											.4	2.0
SSE	.1											.1	2.0
S	.6	.3	.1									1.0	3.9
SSW	1.3	.6	.9	.4								3.2	5.6
SW	1.3	1.8	1.3	1.2	.3							5.9	7.2
WSW	2.1	2.2	2.6	.6	.4							7.9	6.8
W	2.1	3.1	1.3									6.5	5.0
WNW	1.6	.4		.1								2.2	3.6
NW	1.3	.7		.1								2.2	3.7
NNW	1.3	3.2	1.3									5.9	5.1
VARBL	1.0											1.0	1.3
CALM												33.2	
	21.3	24.6	15.3	4.9	.7							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

680



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68, 76-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.7	1.9	.3	.0							6.1	5.8
NNE	1.1	1.9	1.5	.6	.0							5.1	6.3
NE	1.2	3.8	3.8	1.5	.0							10.4	7.2
ENE	1.5	2.3	2.2	.5	.1							6.6	6.2
E	.9	1.4	.9	.2	.0							3.5	5.5
ESE	.3	.5	.5	.1								1.3	6.5
SE	.2	.3	.2	.0								.7	5.1
SSE	.5	.3	.1	.0								.9	3.6
S	.6	.4	.2	.0								1.2	4.1
SSW	.8	1.0	1.0	.3	.1							3.1	6.3
SW	.9	2.0	2.7	1.7	.4		.0	.0				7.7	8.5
WSW	1.8	2.7	4.3	2.5	.4	.0	.0					11.8	8.1
W	1.7	2.9	3.7	1.6	.2							10.1	7.3
WNW	.9	.7	.6	.2								2.4	5.4
NW	.7	1.0	.5	.1								2.2	5.0
NNW	1.2	2.1	1.6	.4	.0							5.4	6.2
VARBL	.7	.4	1.3	.4	.0							2.8	7.0
CALM												18.7	
	16.2	26.5	27.1	10.3	1.2	.0	.0	.0				100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

5931

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 7120 STATION SEMBACH AB DL 65-68,76-77,79 YEARS MAY MONTH  
0000-0200 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.4										1.7	2.6
NNE	1.1	1.1	.4									2.5	4.6
NE	1.5	3.6	.8	.4	.2							6.5	5.7
ENE	2.1	1.9	.8	.4								5.3	4.9
E	2.3	1.3	.2									3.8	3.6
ESE	.6		.2									.8	3.8
SE	.8	.2										1.1	2.8
SSE	.6	.8										1.5	3.1
S	1.1	.2	.2									1.5	3.6
SSW	1.3	.4	1.5	.4								3.6	6.2
SW	1.9	2.9	2.7	2.3		.2						10.1	7.4
WSW	1.9	2.1	1.7	1.3	.4	.2						7.6	7.9
W	1.3	3.4	2.1	.6								7.4	6.0
WNW	1.9	.4										2.3	2.7
NW	.4	.8	.4									1.7	4.8
NNW	.4	.2										.6	3.7
VARBL	.8											.8	1.5
CALM												41.3	
	21.3	19.8	11.2	5.5	.6	.4						100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 475

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,77-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.0	1.6	.9									3.5	5.0
NNE	1.6	2.1	.5									4.1	4.3
NE	2.1	1.7	2.6	.3								6.7	5.9
ENE	.9	1.7	1.4	.2								4.1	5.8
E	1.9	.3										2.2	2.5
ESE	.3											.3	1.5
SE	.9											.9	2.0
SSE	1.2											1.2	1.9
S	2.1	.5	.3									2.9	3.1
SSW	.7	1.4	1.0									3.1	5.7
SW	1.2	2.9	2.2	.5								6.9	6.1
WSW	1.6	2.1	4.8	1.7	.7							10.9	8.6
W	2.2	2.4	1.7	.5								6.9	5.5
WNW	.5	.9	.2									1.6	4.0
NW	.5	.3	.3									1.2	4.9
NNW	.3	1.0	.3									1.7	5.1
VARBL	1.2			.2								1.4	2.9
CALM												40.2	
	20.2	19.0	16.4	3.5	.7							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 579

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL 65-68,76-81 YEARS MAY MONTH  
STATION NAME  
ALL WEATHER CLASS  
CONDITION  
0600-0800 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.2	.6									3.1	4.3
NNE	1.2	1.6	1.0									3.7	4.9
NE	2.3	4.8	2.2	.2								9.5	5.2
ENE	1.9	2.0	3.4	.6								8.0	6.4
E	1.2	1.0	.7									2.9	4.4
ESE	.4	.1										.5	2.0
SE	.4											.4	2.3
SSE	.4	.4										.7	3.2
S	2.2	.4	.1									2.7	2.8
SSW	2.0	1.2	1.4	.5								5.2	5.7
SW	1.1	2.8	4.0	1.6								9.4	7.4
WSW	2.3	3.6	3.6	3.4	.4							13.3	7.6
W	1.0	1.8	2.0	1.0								5.8	7.0
WNW	.2	1.0	.1									1.3	4.9
NW	.4	.5	.7									1.6	6.5
NNW	.8	.8	1.0									2.7	5.4
VARBL	.4	.1	.4									.8	5.9
CALM												28.6	
	19.4	23.3	21.2	7.2	.4							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 830

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

17100  
STATION

SENBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.4	1.1	.1								4.3	5.1
NNE	.5	2.5	1.0	.2								4.3	5.9
NE	.5	3.5	3.8	1.3	.1							9.3	7.6
ENE	1.1	3.2	4.1	2.1								10.4	7.7
E	.4	1.4	2.2	.3	.2							4.6	7.5
ESE	.5	.8	.5	.3								2.2	6.1
SE	.5	.2	.3									1.1	4.6
SSE	1.2	.4	.2	.1								2.0	4.0
S	1.3	1.0	.2	.1								2.6	4.1
SSW	1.3	.7	1.8	.7	.1							4.5	7.1
SW	1.2	2.1	4.9	3.1	.5							11.9	8.8
WSW	1.3	3.7	5.3	3.4	.7							14.4	8.6
W	1.9	3.7	4.5	1.6	.2							12.0	7.2
WNW	.4	.8	.7	.1								2.0	5.9
NW	.3	1.3	.2	.1								2.0	5.4
NNW	1.0	.4	1.0									2.4	5.1
VARBL	.9	.4	1.8	.4								3.5	6.8
CALM												6.6	
	16.2	27.7	33.6	14.1	1.9							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

911

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120 STATION SEMBACH AB DL STATION NAME 65-68,76-81 YEARS MAY MONTH  
ALL WEATHER CLASS 1200-1400 HOURS (LST) CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.2	1.4	.2								4.9	5.7
NNE	.7	2.0	2.2	.1								4.9	6.5
NE	1.1	2.0	3.2	1.3	.1							7.7	7.7
ENE	.7	2.7	3.2	1.9								7.7	8.4
E	.8	2.5	2.1	1.5	.1							7.0	7.8
ESE	.3	.9	1.1	.7								3.0	8.0
SE	.2	1.0	.7									1.9	5.8
SSE	.2	.5	.3	.1								1.2	6.1
S	.5	.8	.9	.1								2.3	6.1
SSW	.4	.7	1.0	.9								3.0	8.3
SW	.4	1.9	4.2	2.7	.4	.1						9.7	9.7
WSW	1.2	2.5	7.3	3.7	.7	.2						15.6	9.1
W	1.6	3.7	4.3	4.3	.3							14.2	8.6
WNW	.4	2.0	.9	.7								3.9	6.6
NW	.7	.4	.5	.1	.1							1.9	6.1
NNW	1.1	1.2	.5	.1								3.0	4.8
VARBL	.2	.3	3.7	1.3	.1							5.7	9.0
CALM												2.6	
	11.7	26.4	37.4	19.7	1.9	.3						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 915

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.0	.7	.1								3.9	4.8
NNE	1.1	1.8	1.8	.6	.1							5.3	6.7
NE	.4	3.1	2.7	1.4								7.6	7.4
ENE	.2	2.5	3.9	1.2	.3							8.2	8.2
E	.6	1.9	2.7	1.2								6.3	7.6
ESE	.1	1.1	1.3	.1								2.7	6.9
SE	.1	.8	.7	.4								2.0	7.5
SSE	1.1	1.4	.8									3.3	5.1
S	.6	1.0	.3	.4								2.3	6.3
SSW	.6	1.1	.9	1.0								3.5	7.5
SW	.6	.9	3.8	2.4	.4							8.1	9.8
WSW	1.2	3.1	6.2	3.9	.2	.1						14.7	8.9
W	1.7	2.3	6.1	4.1	.2							14.4	8.6
WNW	.4	1.8	1.1	.8								4.1	6.9
NW	.3	1.0	.8	.2								2.3	6.5
NNW	.7	2.0	1.0	.1								3.8	5.7
VARBL	.7	.3	3.4	1.2								5.7	8.5
CALM												1.7	
	11.8	28.2	38.0	19.3	1.3	.1						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

902

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1890-2000  
HOUSE (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.6	1.0									4.0	5.1
NNE	1.5	1.7	.7	.4								4.3	5.4
NE	2.2	4.2	3.2	.5								10.1	5.8
ENE	1.9	3.3	3.3	1.0								9.5	6.6
E	2.5	3.3	1.0	.1								6.9	4.5
ESE	1.2	1.5	1.4									4.1	5.2
SE	.5	1.4	.4	.1								2.3	5.4
SSE	.5	.2	.1	.1								1.0	4.9
S	1.5	1.1	.5	.1								3.2	4.3
SSW	.9	1.6	.9	.4								3.7	5.6
SW	1.1	2.8	3.6	1.5	.4							9.4	7.7
WSW	1.6	3.6	4.1	2.0	.1							11.4	7.4
W	1.6	5.2	5.1	1.0								12.8	6.7
WNW	.9	1.0	1.5	.1								3.5	6.0
NW	1.0	.4	.7	.1								2.2	5.3
NNW	1.1	1.5	1.2	.1								4.0	5.8
VARBL	.5			.4								.9	6.4
CALM												6.8	
	21.7	34.4	28.6	7.9	.5							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

810



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	1.3	.3									3.6	3.8
NNE	1.6	2.3	1.4	.3								5.6	5.5
NE	2.3	3.7	2.6	.3								8.9	5.6
ENE	2.3	3.3	1.3	.3								7.2	5.2
E	2.0	1.7	.7									4.5	4.1
ESE	1.3	.7	.3									2.3	3.6
SE	.6	.4	.4									1.4	4.3
SSE	.1											.1	2.0
S	1.4	.3	.6									2.3	3.7
SSW	1.1	1.7	.4	.3								3.6	5.2
SW	1.7	3.3	2.0	.9	.1							8.0	6.1
WSW	1.7	2.9	2.7	1.0	.4	.1	.1					9.1	7.9
W	2.6	3.2	1.4	.4								7.5	5.0
WNW	1.6	.3	.3	.1								2.3	3.8
NW	.3	.4	.3									1.0	5.4
NNW	1.1	1.4	.3									2.9	4.5
VARBL	1.0		.3	.1								1.4	4.0
CALM												28.3	
	24.9	26.9	15.4	3.7	.6	.1	.1					100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

696

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 7120 STATION NAME SENBACH AB DL YEARS 65-68, 76-81 MONTH MAY  
CLASS ALL WEATHER HOURS (L.S.T.) ALL  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.5	.8	.1								3.8	4.8
NNE	1.1	1.9	1.2	.2	.0							4.5	5.7
NE	1.5	3.4	2.8	.8	.0							8.5	6.4
ENE	1.3	2.5	2.9	1.1	.0							7.9	7.0
E	1.3	1.8	1.4	.5	.0							5.0	6.0
ESE	.6	.7	.7	.2								2.1	5.8
SE	.5	.5	.3	.1								1.4	5.2
SSE	.7	.5	.2	.0								1.4	4.4
S	1.3	.7	.4	.1								2.5	4.3
SSW	1.0	1.1	1.1	.6	.0							3.8	6.4
SW	1.1	2.4	3.6	2.0	.3	.0						9.3	8.2
WSW	1.6	3.0	4.7	2.7	.4	.1	.0					12.6	8.4
W	1.7	3.2	3.6	1.9	.1							10.6	7.3
WNW	.7	1.1	.7	.3								2.7	5.7
NW	.5	.7	.5	.1	.0							1.8	5.8
NNW	.9	1.1	.7	.0								2.8	5.2
VARBL	.7	.2	1.4	.5	.0							2.8	7.4
CALM												16.6	
	17.8	26.3	27.0	11.1	1.0	.1	.0					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 6118

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-77,79-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

3000-0200  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.3	.2									3.4	3.8
NNE	1.1	.6	.6									2.4	4.3
NE	1.9	3.8	1.5									7.3	4.6
ENE	1.1	.6										1.7	3.0
E	.2	.2										.4	2.5
ESE	.2	.2										.4	3.0
SE	.2											.2	2.0
SSE		.2										.2	5.0
S	1.5											1.5	2.0
SSW	1.1	1.1		.4								2.6	5.0
SW	2.1	1.9	1.9	.6								6.6	5.7
WSW	2.8	2.8	1.9	.6								8.1	5.3
W	2.1	1.9	2.1	.6								6.8	6.0
WNW	1.5	.4		.2								2.1	4.1
NW	1.3	.2										1.5	2.3
NNW	1.5	1.3	1.1									3.8	4.9
VARBL	.6											.6	1.7
CALM												50.2	
	21.2	16.7	9.4	2.6								100.0	2.3

TOTAL NUMBER OF OBSERVATIONS 468

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,77-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.9	.3									1.7	4.4
NNE	.3	1.0	.5									1.9	4.7
NE	3.0	1.7	2.1									6.8	4.7
ENE	1.0	.9	.2									2.1	4.0
E	.3											.3	2.5
ESE	.5	.2										.7	2.3
SE	.2											.2	2.0
SSE	.2											.2	2.0
S	.7	.5										1.2	3.1
SSW	1.7	1.2		.3								3.3	4.3
SW	1.7	3.1	1.9	.5	.2	.2						7.7	6.3
WSW	1.4	4.4	3.0	.3								9.1	5.8
W	2.1	3.7	1.7									7.5	5.0
WNW	.2	.9		.2								1.2	5.3
NW	.5	.7										1.2	4.0
NNW	.9	.5	1.0									2.4	5.2
VARBL	.3											.3	1.5
CALM												52.0	
	15.7	19.7	10.8	1.4	.2	.2						100.0	2.4

TOTAL NUMBER OF OBSERVATIONS

573

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68, 76-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7	1.7									3.8	5.2
NNE	1.1	1.3	.1									2.6	4.0
NE	1.6	4.1	1.6	.1								7.4	5.1
ENE	1.2	2.2	1.7									5.1	5.4
E	.6	.2	.1									1.0	3.4
ESE	.4	.4										.7	3.2
SE	.6											.6	2.0
SSE	.7											.7	2.0
S	2.2	.6										2.8	2.4
SSW	2.2	2.2	.9	.1	.1							5.5	4.9
SW	1.2	4.8	3.4	1.5	.5							11.3	7.1
WSW	1.3	4.4	5.6	.7	.1	.1	.1					12.4	7.2
W	1.2	3.5	1.7	.7								7.2	6.0
WNW	.9	.4	.5	.2								1.9	5.6
NW	.6	.9	.1									1.6	4.2
NNW	.9	1.8	.7	.1								3.5	5.1
VARBL	.4	.1	.1									.6	3.4
CALM												31.2	
	18.4	27.6	18.3	3.5	.7	.1	.1					100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

821

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68, 76-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

3900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.6	1.1									4.9	5.0
NNE	1.6	2.3	1.8									5.7	5.1
NE	1.3	3.6	2.0									6.9	5.3
ENE	1.7	3.4	2.9	.3								8.3	5.9
E	.4	1.7	1.2	.2								3.6	6.3
ESE		.3	.1	.2								.7	7.8
SE	.3	.2	.1	.1								.8	5.1
SSE	.2	.1	.1									.4	4.3
S	1.6	.4	.1									2.1	2.9
SSW	.4	1.9	2.2	.3								4.9	6.9
SW	1.0	4.5	5.6	2.0	.2	.2						13.5	8.0
WSW	1.2	5.3	5.9	2.8	.6							15.8	7.9
W	2.0	4.4	4.9	1.7	.2							13.2	7.1
WNW	.6	.9	.8	.1								2.3	5.5
NW	.8	1.7	.3									2.8	4.8
NNW	.9	.9	1.3	.1								3.2	6.1
VARBL	1.1	.6	1.6	.2								3.5	6.0
CALM												7.3	
	16.4	34.7	32.2	8.2	1.0	.2						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 894

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.3	1.9									5.2	5.5
NNE	.7	2.1	1.2	.1								4.1	5.7
NE	.8	2.7	2.5	.4								6.4	6.5
ENE	1.2	3.5	1.7	.6								6.9	5.9
E	.9	1.3	2.3	.9								5.5	7.6
ESE	.3	.3	.4	.1								1.2	6.5
SE	.1	.6	.1									.8	5.1
SSE	.3	.4										.8	4.0
S	1.0	1.5	.2									2.7	4.2
SSW	.4	1.2	1.1	.7								3.5	7.4
SW	.9	2.6	4.2	2.0	.2							9.9	8.2
WSW	.7	2.5	7.6	4.7	.2							15.6	9.0
W	1.7	4.6	7.3	3.5	.6							17.5	8.3
WNW	.6	2.2	1.7	.2								4.7	6.1
NW	.1	1.0	.6	.2								1.9	6.8
NNW	.9	1.6	1.1	.2								3.8	6.1
VARBL	1.0	.7	2.3	.7								4.7	7.2
CALM												4.8	
	12.6	31.0	36.3	14.3	1.0							100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

896

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

1 7120 STATION SEMBACH AB DL STATION NAME 65-68,76-81 YEARS JUN MONTH  
ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.9	1.5									5.9	5.1
NNE	1.0	2.9	1.2	.3								5.5	5.7
NE	.8	2.6	1.9	.7								6.0	6.5
ENE	1.0	2.8	2.3	.2								6.3	6.0
E	.7	1.5	1.7	.6								4.4	6.6
ESE	.7	1.1	.6	.1								2.5	5.2
SE	.2	.1	.3									.7	5.5
SSE	.3	.1										.5	2.8
S	.8	.8	.3									1.9	4.6
SSW	.3	1.7	1.5	.7								4.2	6.9
SW	.9	2.0	3.8	2.3								9.0	8.1
WSW	.9	4.0	5.9	3.5	.2							14.4	8.6
W	.8	5.9	10.0	4.4								21.1	8.3
WNW	.8	1.1	1.0	.1								3.0	5.9
NW	.9	1.6	.8	.1								3.4	5.3
NNW	.9	1.1	1.0	.3								3.4	5.9
VARBL	.9	.5	2.1	.5								4.0	6.9
CALM												3.8	
	13.4	32.7	36.0	13.8	.2							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 886



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.5	1.0	.1								5.5	4.7
NNE	2.2	2.6	1.6	.1								6.6	4.9
NE	1.7	4.5	1.9	.2								8.4	5.4
ENE	2.2	2.6	1.5	.4								6.7	5.2
E	.9	1.6	.2									2.7	3.9
ESE	.4	.7	.1									1.2	5.2
SE	.1	.2										.4	3.3
SSE	.5	.2	.2									1.0	4.6
S	1.0	1.4	.5									2.9	4.7
SSW	1.1	1.6	1.1	.1	.1							4.1	5.9
SW	1.2	3.2	2.4	.9								7.7	6.4
WSW	2.7	3.9	5.2	1.4								13.2	6.6
W	3.4	7.1	5.6	2.1	.2							18.5	6.6
WNW	1.4	1.0	.6	.1								3.1	4.6
NW	1.0	1.7	.2	.1								3.1	4.8
NNW	1.7	1.9	.6									4.2	4.2
VARBL	.6	.2	.6	.1								1.6	5.6
CALM												8.9	
	24.2	37.2	23.6	5.7	.4							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

801

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.5	3.0	.3									5.8	4.0
NNE	2.5	1.9	.1									4.5	3.4
NE	2.0	1.4	1.2	.1								4.8	4.7
ENE	2.0	1.4	1.3									4.8	4.6
E	.9	.1										1.0	2.6
ESE													
SE	.7	.1										.9	2.2
SSE	1.0	.3										1.3	2.7
S	1.7	.4	.3									2.5	3.5
SSW	1.2	1.0	.3	.3								2.8	5.2
SW	1.9	1.4	1.6	.4								5.4	5.5
WSW	3.8	4.1	2.5	.7								11.0	5.4
W	3.3	2.8	1.4	.7	.1							8.4	5.5
WNW	.7	.4	.4									1.6	4.3
NW	.1	1.0										1.2	4.4
NNW	1.4	1.7	.1									3.3	3.7
VARBL	1.2											1.2	1.8
CALM												39.7	
	27.0	21.3	9.6	2.3	.1							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS 690

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7123 STATION NAME SEMBACH AB DL YEARS 65-68,76-81 MONTH JUN  
STATION CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.1	1.1	.0								4.7	4.8
NNE	1.3	2.0	1.0	.1								4.4	4.9
NE	1.5	3.1	1.9	.2								6.7	5.4
ENE	1.5	2.4	1.6	.2								5.7	5.5
E	.6	.9	.8	.2								2.7	6.1
ESE	.3	.4	.2	.1								1.0	5.2
SE	.3	.2	.1	.0								.6	3.9
SSE	.4	.2	.0									.7	3.4
S	1.7	.8	.2									2.3	3.6
SSW	1.0	1.5	1.0	.4	.0							4.0	6.0
SW	1.3	3.0	3.3	1.4	.1	.0						9.2	7.3
WSW	1.7	3.9	5.0	2.1	.2	.0	.0					13.0	7.4
W	2.0	4.4	4.8	1.9	.2							13.3	7.2
WNW	.8	1.0	.7	.1								2.6	5.4
NW	.6	1.2	.3	.1								2.2	4.9
NNW	1.1	1.4	.9	.1								3.5	5.2
VARBL	.8	.3	1.0	.2								2.3	6.0
CALM												21.2	
	18.2	28.9	23.9	7.2	.5	.1	.0					100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 6029

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120 STATION SEMBACH AB DL 64-68,77,79 YEARS JUL NORTH  
0000-0200 HOURS (LST)  
ALL WEATHER CLIM  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.4										3.0	3.5
NNE	1.0	.8										1.8	3.1
NE	.8	2.0										2.8	3.9
ENE	.8	2.2										3.0	3.7
E													
ESE	.2											.2	2.0
SE													
SSE	.2											.2	2.0
S	.4	.4										.8	4.3
SSW	.6	.4										1.0	2.8
SW	1.2	3.0	1.4									5.6	5.1
WSW	1.2	3.2	3.2	.4								8.0	6.5
W	3.0	2.0	1.2	.4	.2							6.8	5.0
WNW	1.2	.8	.2									2.2	3.5
NW	.6	.6										1.2	3.3
NNW	1.2	.4	.4									2.0	3.6
VARBL	2.2											2.2	1.4
CALM												59.2	
	16.2	17.2	6.4	.8	.2							100.0	1.8

TOTAL NUMBER OF OBSERVATIONS 500

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAF

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17120  
STATION

SEMBACH AB DL  
STATION NAME

64-68,77-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	.6										2.4	2.7
NNE	1.1	.3										1.4	2.4
NE	1.0	2.6	.2									3.7	4.1
ENE	.8	.6										1.4	3.4
E		.2										.2	6.0
ESE													
SE	.2											.2	2.0
SSE													
S	.6	.2										.8	2.2
SSW	1.6	.5	.5	.2								2.7	4.4
SW	2.2	3.3	2.2	.3								8.1	5.5
WSW	1.9	2.9	4.6	.5								9.9	6.5
W	2.1	1.4	1.1	.3								4.9	5.0
WNW	1.1											1.1	1.7
NW	.8	.5	.2									1.4	3.9
NNW	1.3	1.1										2.4	3.2
VARBL	1.1											1.1	2.0
CALM												58.2	
	17.5	14.2	8.8	1.3								100.0	2.0

TOTAL NUMBER OF OBSERVATIONS

627

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

177120 STATION SEMBACH AB DL STATION NAME 64-68.76-81 YEARS JUL MONTH  
ALL WEATHER CLASS 2600-0800 HOURS (LST)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.7	.4									2.1	4.2
NNE	1.2	.8	.2									2.2	3.5
NE	1.3	2.2	.4									4.0	4.4
ENE	1.7	2.0	.7	.1								4.5	4.5
E	1.0	.6	.2									1.8	3.9
ESE	.3											.3	2.0
SE	.2	.1										.3	3.0
SSE	.7	.1										.8	2.0
S	1.9		.2									2.1	2.5
SSW	1.9	1.1	.7	.2								3.9	4.5
SW	2.6	4.6	3.8	1.0	.1							12.0	6.1
WSW	1.9	4.1	6.0	1.4	.2							13.7	7.2
W	1.6	1.6	2.1									5.2	5.4
WNW	.9	1.0	.2									2.1	4.2
NW	1.1	1.0	.1									2.2	3.8
NNW	1.6	1.2	.4									3.2	3.9
VARBL	1.6		.1									1.7	2.3
CALM												37.7	
	22.4	21.1	15.7	2.8	.3							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 897

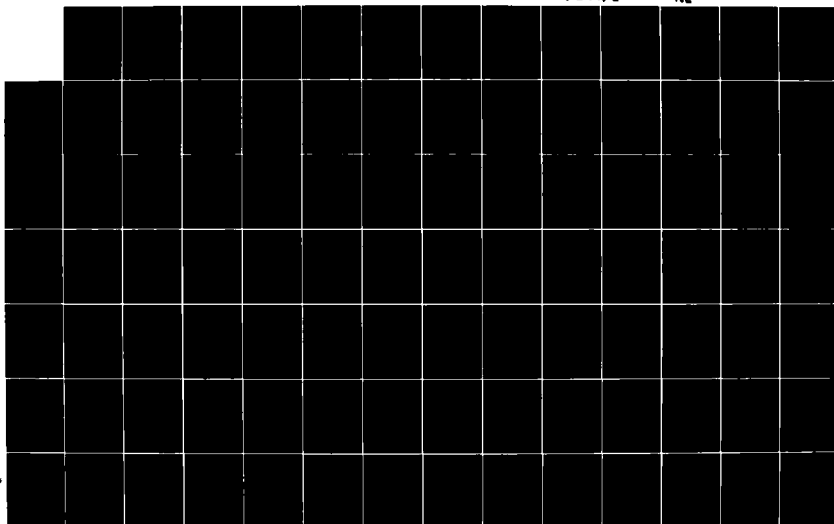
AD-A122 711

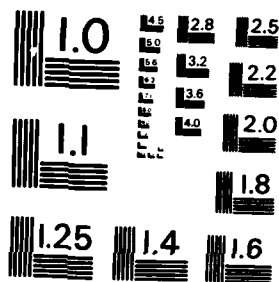
SENBACH AB GERMANY (WEST) REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBS... (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A... 28 JUL 82  
USAFETAC/DS-82-048 SBI-AD-8850 204 F/O.4/2

25

UNCLASSIFIED

NL





MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 712C STATION NAME SEMBACH AB DL YEARS 64-68,76-81 MONTH JUL  
STATION CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.5	.9	.1								3.6	5.0
NNE	1.0	1.5	.5									3.0	4.4
NE	1.3	2.5	.7	.1								4.7	4.9
ENE	1.6	2.4	1.8	.1								6.0	5.2
E	1.9	1.8	1.2	.2								5.2	4.9
ESE	.6	.3	.4									1.3	4.5
SE	.4											.4	3.0
SSE	.5	.2										.7	3.0
S	1.6	.3	.3									2.2	3.7
SSW	1.2	1.7	1.3	.3								4.6	5.8
SW	1.1	3.7	4.3	2.1	.4	.1						11.8	8.0
WSW	2.3	4.4	10.8	4.2	.7	.1						22.5	8.4
W	1.9	2.8	4.8	1.6								11.1	7.0
WNW	1.4	1.8	1.1	.1								4.5	5.2
NW	.6	2.0	1.0									3.6	5.5
NNW	.7	2.3	.5									3.5	4.7
VARBL	1.1	.9	.9	.2								3.1	5.0
CALM												8.1	
	20.6	30.4	30.6	9.0	1.1	.2						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 987

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

17120 STATION SEMBACH AB DL 64-68,76-81 YEARS JUL MONTH  
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.7	1.3									5.1	5.2
NNE	.7	1.0	1.5									3.2	5.9
NE	.6	1.7	1.0	.2								3.5	5.7
ENE	1.3	2.1	1.3	.2								4.9	5.5
E	.7	2.7	1.1	.2								4.7	5.7
ESE	.4	.9	.7									2.0	6.0
SE	.2	.5	.1									.8	4.6
SSE	.4	.5	.1									1.0	4.3
S	.5	.5	.3									1.3	4.3
SSW	.5	1.5	2.3	.9								5.2	7.6
SW	1.0	2.9	4.2	2.6	.6	.1						11.5	8.8
WSW	.9	3.5	8.1	4.3	.8	.1						17.8	9.2
W	1.7	4.5	5.9	3.3								15.4	7.8
WNW	1.9	2.2	1.9									6.1	5.2
NW	.6	1.5	1.3	.2								3.6	5.9
NNW	1.3	1.7	1.9	.2								5.1	5.6
VARBL	1.0	.8	2.7	.4								4.9	6.7
CALM												3.5	
	14.9	31.5	35.8	12.6	1.4	.2						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 991

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-68, 76-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.9	1.4									5.7	5.2
NNE	.8	1.9	1.2									4.0	5.4
NE	.6	1.7	.7	.1								3.2	5.8
ENE	1.0	2.4	1.0									4.5	5.1
E	1.3	1.6	.8	.1								3.9	5.0
ESE	.4	.9	.7									2.0	5.6
SE	.4	.6	.2									1.2	4.6
SSE	.8	.8	.1									1.7	4.1
S	.7	.4	.2	.1								1.4	5.0
SSW	.5	.7	1.3	.6								3.2	7.7
SW	.9	2.1	3.7	2.2	.5							9.5	8.9
WSW	.7	3.9	8.3	5.2	.4							18.5	9.2
W	1.9	4.4	7.5	3.3	.1							17.2	7.9
WNW	.9	3.2	1.3	.2								5.6	5.7
NW	.7	1.3	1.7	.2								4.0	6.1
NNW	.7	3.7	2.2	.2								6.8	5.9
VARBL	.9	.3	2.0	.3								3.6	6.8
CALM												4.3	
	14.7	32.9	34.6	12.5	1.0							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

984

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1 7120 SEMBACH AB DL STATION NAME 64-68,76-81 YEARS JUL MONTH 1800-2000 HOURS (L.S.T.)  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	2.8	3.0	1.5	.1								7.4	4.8
NNE	2.3	1.4	.7									4.3	4.1
NE	1.7	3.3	.7	.1								5.8	4.5
ENE	1.4	3.2	.8	.1								5.4	4.7
E	2.6	1.6	.7									4.9	4.0
ESE	.7	.9	.1									1.7	4.1
SE	.3	.3	.1									.8	4.3
SSE	.9	.2										1.1	2.7
S	.6	.3										.9	3.1
SSW	.7	1.2	.6									2.5	5.1
SW	1.8	2.6	1.6	1.0								7.0	6.3
WSW	2.0	4.5	6.0	2.1								14.7	7.1
W	2.3	6.3	6.2	1.6	.2							16.6	6.9
WNW	1.2	1.9	1.0		.1							4.3	5.3
NW	1.4	1.7	.8	.1								4.0	4.8
NNW	1.9	2.1	1.7	.1								5.9	5.1
VARBL	.2			.1								.3	5.0
CALM												12.5	
	24.7	34.7	22.3	5.4	.3							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 886

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL 64-68.76-81 YEARS JUL MONTH  
ALL WEATHER CLASS 2100-2300 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	3.4	1.0									6.1	4.4
NNE	2.4	1.8	.3									4.5	3.2
NE	2.3	3.3	.4									6.0	4.2
ENE	1.8	1.6	.3									3.7	3.7
E	.7	.4	.3									1.4	4.0
ESE	.1											.1	3.0
SE	.4	.1	.1									.7	4.0
SSE	.3		.1									.4	4.0
S	1.6	.1										1.7	1.9
SSW	1.0	.7	.1	.1								2.0	4.4
SW	2.1	2.8	1.4	.3								6.7	5.2
WSW	3.1	3.7	3.7	.7	.1							11.4	5.9
W	3.3	2.6	1.3	.3								7.4	4.7
WNW	.4	1.3	.4									2.1	5.0
NW	1.8	.7										2.6	3.0
NNW	1.4	1.3	.6									3.3	4.2
VARBL	1.1											1.1	1.5
CALM												38.8	
	25.7	23.9	10.1	1.4	.1							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 704

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL STATION NAME 64-68.76-81 YEARS JUL MONTH  
ALL WEATHER CLASS ALL MONTHS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.1	.9	.0								4.6	4.7
NNE	1.3	1.2	.6									3.2	4.3
NE	1.2	2.4	.6	.1								4.2	4.7
ENE	1.3	2.1	.9	.1								4.4	4.8
E	1.2	1.3	.6	.1								3.1	4.8
ESE	.4	.4	.3									1.1	4.9
SE	.3	.2	.1									.6	4.1
SSE	.5	.3	.0									.8	3.4
S	1.0	.3	.2	.0								1.5	3.4
SSW	1.0	1.1	1.0	.3								3.4	5.9
SW	1.6	3.1	3.0	1.4	.2	.0						9.4	7.2
WSW	1.7	3.8	6.8	2.7	.3	.0						15.4	8.0
W	2.1	3.4	4.2	1.5	.1							11.3	6.9
WNW	1.2	1.7	.9	.0	.0							3.8	5.0
NW	.9	1.3	.7	.1								3.0	5.0
NNW	1.2	1.9	1.1	.1								4.3	5.0
VARBL	1.1	.3	.9	.2								2.4	5.1
CALM												23.4	
	19.6	27.0	22.7	6.6	.7	.1						100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 6576

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

64-68,78  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.3	.9									2.7	4.5
NNE	1.3	.2										1.5	3.0
NE	1.7	5.0	.9	.4								7.5	4.8
ENE	1.9	1.9										3.8	3.6
E	1.0											1.0	1.4
ESE	.6	.2										.8	2.5
SE	1.0											1.0	1.8
SSE	.2	.2										.4	4.0
S	1.9	1.5	.2									3.6	3.4
SSW	1.7	1.3	.9									3.4	3.8
SW	1.7	3.1	2.1	.6								7.5	6.0
WSW	1.5	2.5	1.9	.8								6.7	6.1
W	1.7	1.5	.6	.9								4.2	5.2
WNW	.2	.6		.2								1.0	5.2
NW	.6	.2	.9									1.3	4.3
NNW	.4	.6	.9									1.5	5.1
VARBL													
CALM												52.0	
	18.4	20.1	6.9	2.5								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

477

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL 64-68.77-81 YEARS AUG MONTH  
ALL WEATHER CLASS 0300-0500 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.5										1.8	3.0
NNE	.8	.5	.2									1.5	3.6
NE	2.3	3.3	1.0									6.6	4.2
ENE	1.2	.3	.3									1.8	3.5
E	.7	.3										1.0	2.7
ESE	.2											.2	1.0
SE	.3	.3										.7	3.0
SSE	.7	.5										1.2	3.0
S	2.0	.7										2.6	2.9
SSW	1.2	1.0	1.3	.2								3.6	5.7
SW	2.3	2.6	2.1	.7								7.8	5.6
WSW	2.3	1.5	1.5	.7								6.0	5.4
W	1.3	1.3	1.7	.2								4.5	5.6
WNW		.2	.3									.5	7.0
NW	.3	.2										.5	3.3
NNW	.5	.5	.3									1.3	4.5
VARBL	1.2											1.2	1.7
CALM												57.4	
	18.5	13.7	8.8	1.7								100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 605



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

64-68, 76-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.5	.3									1.6	4.4
NNE	1.2	.7	.3									2.2	3.9
NE	2.0	3.2	.8	.2								6.1	4.6
ENE	1.4	1.5	1.4	.1								4.5	5.2
E	.8	.3	.2									1.3	3.6
ESE	.3											.3	2.0
SE	.4	.1										.5	2.2
SSE	.8	.2										1.0	2.7
S	2.5	1.5										4.1	3.1
SSW	2.8	2.3	.5	.3	.1							6.1	4.5
SW	1.9	3.0	2.3	1.0								8.1	6.3
WSW	1.2	4.1	3.9	.8								10.0	6.6
W	1.1	2.1	2.0	.2								5.4	6.1
WNW	.4	.4	.2	.2								1.3	5.8
NW	.5	.3	.2									1.1	4.0
NNW	.8	.5	.5									1.9	4.5
VARBL	.2	.1	.2									.5	5.0
CALM												43.9	
	19.2	20.9	13.0	2.8	.1							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 913

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SENBACH AB DL

STATION NAME

64-68,76-81

YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	1.5	.3									3.6	3.8
NNE	1.9	1.5	.5	.1								4.0	4.3
NE	1.5	3.6	2.0	.3								7.4	5.6
ENE	1.3	3.2	2.0	.2								6.7	5.6
E	1.7	2.0	1.2	.2								5.1	5.3
ESE	1.1	.3	.1	.3								1.8	4.7
SE	.4	.3	.3	.1								1.1	5.4
SSE	.8	1.0										1.8	3.7
S	2.2	.8	.1									3.1	3.2
SSW	1.2	1.5	2.0	.2								4.9	5.0
SW	.9	2.6	3.5	1.8								8.8	7.6
WSW	1.5	5.2	5.5	3.1	.2							15.4	7.8
W	1.8	4.0	4.5	1.4	.2	.1						11.9	7.4
WNW	.6	1.0	.8	.4								2.8	6.3
NW	.6	1.3	.4	.1								2.4	5.0
NNW	1.0	1.8	.6	.1								3.5	4.9
VARBL	1.0	.2	1.1	.3								2.6	5.8
CALM												13.3	
	21.2	31.6	29.8	8.6	.4	.1						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 1005

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-68,76-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.9	.6	.2								4.1	4.9
NNE	1.2	2.7	1.5									5.4	5.1
NE	1.3	2.9	1.3	.3								5.8	5.6
ENE	.4	2.8	2.3	.3								5.8	6.3
E	1.5	2.6	1.4	.4								5.9	5.7
ESE	.3	.6	.5	.4								1.8	6.8
SE		.7	.7									1.4	6.9
SSE	.4	.7	.6									1.7	5.4
S	.9	1.6	.7	.1								3.3	5.1
SSW	.7	1.5	1.8	1.0	.1							5.1	7.7
SW	.8	1.5	3.6	1.6	.1							7.5	8.3
WSW	1.6	3.3	6.3	3.6	.1	.1						15.0	8.4
W	1.6	4.9	6.2	3.4	.2							16.2	8.0
WNW	1.4	2.3	1.3	.6								5.6	5.9
NW	1.3	1.1	.8	.3								3.5	5.3
NNW	1.0	2.3	1.0	.1								4.4	5.3
VARBL	1.4	.1	1.8	.6								3.9	6.9
CALM												4.1	
	17.1	33.2	32.2	12.8	.5	.1						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 1000

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-68,76-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.7	1.8	2.1									5.7	5.4
NNE	1.2	1.5	1.4	.2								4.3	5.7
NE	1.2	3.1	1.3	.2								5.9	5.6
ENE	1.2	2.9	2.1	.3								6.6	5.8
E	1.1	2.5	1.9	.5								6.1	6.0
ESE	.6	.5	.6									1.7	5.0
SE	.5	1.1	.6									2.2	5.2
SSE	.3	.5	.1									.9	4.7
S	1.1	1.8	.4	.2								3.5	4.9
SSW	.8	1.7	1.9	.8								5.3	7.2
SW	.7	2.5	3.1	2.0	.1							8.5	8.3
WSW	1.7	3.7	6.4	3.2								15.1	8.0
W	1.1	4.0	6.2	3.8	.2							15.4	8.5
WNW	.9	1.4	1.6	.6								4.6	6.7
NW	.3	1.8	.9									3.0	5.7
NNW	1.1	1.7	1.4	.2								4.4	5.7
VARBL	.6		1.1	.3								2.0	7.2
CALM												4.9	
	16.3	32.9	33.3	12.4	.3							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

989

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL 64-68,76-81 AUG  
STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
1800-2000  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	2.6	1.0	.2								6.1	4.7
NNE	1.6	2.5	1.3									5.4	4.8
NE	3.5	3.2	.9									7.6	4.1
ENE	2.3	4.6	1.2									8.1	4.7
E	1.9	1.7		.1								3.7	3.7
ESE	.6	.3	.2									1.1	3.9
SE	.9	.3	.2									1.4	4.0
SSE	.6	.4										1.0	3.1
S	2.1	1.2	.9	.1								4.3	4.3
SSW	1.6	1.6	1.0									4.1	4.6
SW	2.1	3.2	2.2	.7								8.2	5.9
WSW	1.9	4.1	4.1	.9								11.0	6.5
W	2.3	5.4	3.6	.8								12.0	5.9
WNW	1.1	1.4	.6									3.1	4.6
NW	.9	1.0	.9									2.8	5.0
NNW	1.9	1.9	.3									4.1	3.8
VARBL	.4											.4	1.8
CALM												15.3	
	28.0	35.5	18.5	2.8								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 897

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL 69-68.76-81 YEARS AUG MONTH  
2100-2300 HOURS (LST)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	2.1	1.5	.2									3.8	3.4
NNE	2.6	.9	.3									3.8	3.2
NE	2.0	3.6	1.1	.2								6.8	4.8
ENE	2.4	1.7	1.1									5.2	4.1
E	.6	1.1										1.7	3.7
ESE	.8											.8	2.0
SE	1.2	.2										1.4	2.2
SSE	.6	.2										.8	2.4
S	2.3	.6	.2									3.0	3.0
SSW	1.5	1.2	.3	.2								3.2	4.0
SW	2.1	2.4	1.5	.2								6.2	4.8
WSW	2.3	3.2	.9	.6								7.0	5.3
W	3.0	1.7	.6	.6								5.9	4.5
WNW	1.2	.2	.2									1.5	2.8
NW	.5	.8	.2									1.4	4.6
NNW	1.5	.6	.5									2.6	3.7
VARBL	.8											.8	1.8
CALM												44.4	
	27.4	19.7	6.8	1.7								100.0	2.3

TOTAL NUMBER OF OBSERVATIONS 660

7  
2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL 64-68,76-81 YEARS AUG MONTH  
STATION NAME CLASS ALL HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.5	.7	.1								3.8	4.5
NNE	1.5	1.4	.8	.0								3.8	4.6
NE	1.9	3.4	1.2	.2								6.6	4.9
ENE	1.4	2.5	1.5	.1								5.6	5.2
E	1.2	1.5	.7	.2								3.6	5.0
ESE	.6	.3	.2	.1								1.2	4.7
SE	.5	.4	.3	.0								1.3	4.5
SSE	.5	.5	.1									1.2	3.9
S	1.8	1.3	.3	.1								3.5	3.9
SSW	1.4	1.6	1.3	.4	.0							4.6	5.8
SW	1.5	2.6	2.7	1.2	.0							7.9	6.9
WSW	1.7	3.6	4.3	1.9	.0	.0						11.6	7.3
W	1.7	3.4	3.6	1.6	.1	.0						10.3	7.1
WNW	.8	1.1	.7	.3								2.9	5.8
NW	.7	.9	.5	.1								2.2	5.1
NNW	1.1	1.4	.7	.1								3.2	4.8
VARBL	.7	.1	.6	.2								1.6	5.8
CALM												25.2	
	20.6	27.4	20.1	6.4	.2	.0						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 6554

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17120  
STATION

SEMBACH AB DL  
STATION NAME

64-68,76,78,80  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	.5										2.0	2.9
NNE	1.1	.7										1.8	2.9
NE	1.6	3.9	1.1	.2								6.8	4.9
ENE	1.4	1.1	.5									2.9	4.1
E	.7	.5	.5									1.6	4.7
ESE													
SE	.7											.7	2.0
SSE	.9	.2	.5									1.6	3.7
S	1.6	.5	.2									2.3	3.2
SSW	1.8	.9	.9	.5								4.1	5.4
SW	2.5	4.3	5.7	1.1								13.6	6.7
WSW	3.6	4.3	3.9	.9	.5							13.2	6.0
W	1.1	2.0	1.8	.2								5.2	5.9
WNW	.5	.5	.2									1.1	4.6
NW													
NNW	.2	.2										.5	3.0
VARBL	.5											.5	1.0
CALM												42.2	
	19.7	19.5	15.2	2.9	.5							100.0	3.1

TOTAL NUMBER OF OBSERVATIONS

991



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-68,76-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5										1.0	3.5
NNE	1.5	.7	.2									2.4	3.4
NE	1.2	2.2	1.3	.2								4.9	5.3
ENE	1.2	1.0	.5									2.7	4.3
E	.5	.2	.5									1.2	4.9
ESE	1.3											1.3	2.1
SE	1.0											1.0	2.3
SSE	.5	.2										.7	2.5
S	2.0	1.3	.2									3.5	3.1
SSW	2.0	1.3	1.5	.3								5.2	5.7
SW	2.9	4.4	3.7	.3	.2							11.5	6.0
WSW	1.3	3.9	4.2	1.3	.3							11.1	7.4
W	1.0	1.7	.7	.3								3.7	5.3
WNW	.5	.2										.7	2.5
NW	.2	.2	.2									.5	6.0
NNW	.5	.3										.8	2.8
VARBL	.7											.7	1.5
CALM												47.0	
	18.9	18.0	13.0	2.5	.5							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

593

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

69-68.76-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.1	.2	.1								1.5	4.0
NNE	1.4	.6	.1									2.1	3.6
NE	2.6	2.0	1.7	.1								6.5	4.8
ENE	1.2	1.2	.5									2.8	4.5
E	.8	.1										.9	2.3
ESE	.7	.1										.8	2.4
SE	.7	.1										.8	1.6
SSE	1.4	.1										1.5	2.0
S	2.5	.7	.8									4.0	3.7
SSW	2.9	1.2	.6									5.4	4.7
SW	2.3	5.1	3.9	1.6								13.1	6.6
WSW	2.1	2.8	4.5	1.7								11.1	7.2
W	1.7	1.5	2.0	.5								5.6	6.1
WNW	.5	.6	.1									1.2	4.3
NW	.1											.1	2.0
NNW	.9	.3	.1									1.4	3.3
VARBL	.2		.1									.3	3.7
CALM												40.9	
	23.0	16.4	14.9	4.8								100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

868

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

17120  
STATION

SEMBACH AB DL  
STATION NAME

64-68,76-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.6	.6									2.0	4.9
NNE	1.1	1.2	.8									3.2	5.0
NE	1.8	3.9	2.0	.3								7.9	5.2
ENE	1.5	2.4	1.5	.3								5.8	5.5
E	.8	1.1	.9	.2								3.1	5.5
ESE	.6	.3	.4	.1								1.4	5.2
SE	.4	.3										.7	3.3
SSE	.9	.5	.1									1.5	3.2
S	2.9	.6	.8									4.3	3.6
SSW	1.9	2.4	2.3	.8								7.3	6.0
SW	1.7	4.0	6.1	2.8	.4							15.0	7.9
WSW	1.0	4.0	7.2	5.3	.6	.1						18.3	9.1
W	1.8	2.5	3.3	2.0								9.5	7.3
WNW	.3	.5	.3									1.1	5.1
NW	.4	.3	.1									.8	4.3
NNW	.5	1.1	.5									2.2	5.0
VARBL	1.3	.3	1.0									2.7	4.8
CALM												13.1	
	19.7	26.2	28.1	11.8	1.0	.1						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

969

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION 1 SEMBACH AB DL STATION NAME 64-68.76-81 YEARS SEP MONTHS 1200-1400  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.1	1.0	.1								3.3	5.1
NNE	.8	1.7	.9	.2								3.7	5.6
NE	.4	2.7	2.1	.4								5.6	6.5
ENE	1.2	3.5	2.6									7.3	5.8
E	.7	1.7	2.1	.6								5.1	6.9
ESE	.6	.5	.6									1.7	5.4
SE	.3	.7	.2	.1								1.3	5.8
SSE	.4	.3	1.1									1.9	6.4
S	1.4	1.2	.8	.4								3.9	5.7
SSW	1.5	2.5	2.0	1.5								7.5	7.0
SW	.3	2.3	5.0	4.0	.2							11.8	9.3
WSW	1.3	2.9	8.0	7.3	.9							20.5	9.8
W	2.1	2.3	4.7	3.2	.1							12.3	8.1
WNW	.3	.8	.7									1.9	5.8
NW	.5	.2	.3	.1								1.1	5.1
NNW	.7	.7	.7									2.2	5.5
VARBL	1.3	.8	2.7	.4								5.2	6.5
CALM												3.6	
	15.1	26.0	35.6	18.4	1.2							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 972

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-68,76-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.7	.6	.1								2.7	5.7
NNE	.6	1.1	.8									2.5	5.4
NE	1.6	3.6	1.2	.1								6.4	5.1
ENE	2.2	4.0	2.1	.3								8.6	5.4
E	1.5	2.2	1.8	.2								5.7	5.3
ESE	.4	.8	.7	.3								2.3	6.7
SE	.9	.5	.8									2.3	5.4
SSE	.5	1.2	.3	.1								2.1	5.4
S	.4	1.6	.9	.1								3.0	6.0
SSW	.8	2.3	2.2	.9								6.3	7.1
SW	.1	2.8	6.2	1.8								10.9	8.2
WSW	.9	3.5	7.0	5.5	.6							17.6	9.3
W	1.8	5.2	6.2	4.5	.3							18.0	8.2
WNW	.5	.8	.6	.1								2.1	5.6
NW	.2	.6	.1									.9	4.6
NNW	.7	.4	.2	.1								1.5	4.8
VARBL	.5	.6	1.8	.1								3.0	6.8
CALM												3.9	
	14.2	32.9	33.8	14.3	.9							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 951

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-68, 76-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLAR

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	.2									2.2	3.9
NNE	1.6	.8	.6									3.0	4.2
NE	3.7	2.5	1.0									7.2	4.0
ENE	3.8	4.1	.6									8.5	3.9
E	2.2	1.6	.8									4.6	4.0
ESE	1.1	.5	.1									1.7	3.3
SE	1.3	.4	.1									1.8	2.9
SSE	1.3	.6										1.9	2.8
S	2.9	1.4	.4									4.7	3.2
SSW	1.9	2.5	1.3	.2		.1						6.1	5.4
SW	1.7	3.0	3.0	.6								8.3	6.4
WSW	2.9	5.4	4.9	1.6				.1				14.9	6.6
W	2.6	4.0	2.5	.8								10.0	5.7
WNW	.6	.7	.1									1.4	4.2
NW	.4	.4										.7	3.5
NNW	.7	.7	.1	.1								1.7	4.8
VARBL	.4		.2									.6	4.0
CALM												20.9	
	30.0	29.5	16.1	3.4		.1		.1				100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 834

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL STATION NAME 64-68,76-81 YEARS SEP MONTH  
ALL WEATHER CLASS 2100-2300 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.6	.8										2.3	2.8
NNE	2.0	.5	.2									2.7	2.8
NE	2.8	3.4	1.4									7.7	4.3
ENE	2.2	2.5	.6									5.3	4.1
E	.9	.6	.8									2.3	4.9
ESE	.3	.2										.5	3.0
SE	1.1		.2									1.3	2.6
SSE	2.0	.2										2.2	2.0
S	3.0		.5									3.4	2.9
SSW	1.7	1.4	.9	.3								4.4	4.9
SW	2.3	4.7	2.7	.8								10.5	5.8
WSW	1.7	3.9	3.1	1.1	.3							10.2	6.6
W	1.3	1.9	1.3	.3								4.7	5.5
WNW	.6	.5	.2									1.3	3.8
NW	.3	.3										.6	3.8
NNW	.5	.8										1.3	4.3
VARBL	.9											.9	1.3
CALM												38.6	
	25.3	21.6	11.7	2.5	.3							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 690

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL STATION NAME 64-68,76-81 YEARS SEP MONTH  
ALL WEATHER CLAS ALL HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.8	.4	.0								2.2	4.5
NNE	1.2	1.0	.5	.0								2.8	4.5
NE	1.9	3.0	1.5	.2								6.6	5.0
ENE	1.9	2.6	1.2	.1								5.9	4.9
E	1.1	1.1	1.0	.2								3.3	5.3
ESE	.7	.4	.3	.1								1.4	4.7
SE	.8	.3	.2	.0								1.3	3.9
SSE	1.0	.4	.3	.0								1.7	3.8
S	2.1	1.0	.6	.1								3.8	4.0
SSW	1.8	1.9	1.6	.7		.0						6.0	6.0
SW	1.5	3.7	4.6	1.9	.1							11.8	7.3
WSW	1.7	3.8	5.7	3.5	.4	.0		.0				15.2	8.3
W	1.8	2.7	3.1	1.7	.1							9.4	7.2
WNW	.5	.6	.3	.0								1.4	4.9
NW	.3	.3	.1	.0								.7	4.5
NNW	.6	.6	.3	.0								1.5	4.6
VARBL	.8	.3	.9	.1								2.0	5.6
CALM												23.0	
	20.5	24.6	22.7	8.7	.6	.0		.0				100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 6268



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

64-67,81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	1.3	.5									3.6	3.8
NNE	1.3	1.8	.5									3.6	4.1
NE	2.6	4.1	2.6	.8								10.1	5.6
ENE	2.3	4.4	1.3									8.0	4.5
E	1.8	.5										2.3	2.8
ESE	.5											.5	2.0
SE	.3											.3	2.0
SSE	.5	.5										1.0	3.0
S	1.6	1.6	.5									3.6	3.8
SSW	1.6	.8	1.0	.5	1.0							4.9	8.7
SW	.8	3.4	3.9	3.6	.5							12.2	9.0
WSW	1.6	3.1	2.6	2.1	.5	.3						10.1	8.5
W	2.1	.5	.8	.3	.3							3.9	5.5
WNW	.5	.3										.8	3.0
NW		.5										.5	4.0
NNW	.8	.8										1.6	3.3
VARBL													
CALM												32.9	
	19.9	23.6	13.7	7.3	2.3	.3						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

386

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 7120 STATION NAME SEMBACH AB DL YEARS 64-67,76-81 MONTH OCT  
CLASS ALL WEATHER HOURS (LST) 0300-0500  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.6	.4									1.3	4.9
NNE	1.4	1.4	.2	.2								3.2	4.6
NE	1.4	4.6	2.0	.4								8.4	5.5
ENE	3.6	3.8	.6	.2								8.2	4.2
E	1.6	1.4	.4									3.4	3.7
ESE	.4											.4	1.5
SE	.2											.2	1.0
SSE	.4	.4			.2							1.0	6.2
S	1.8	.4	.6									2.8	3.4
SSW	1.0	2.0	.6	.6		.2						4.4	6.5
SW	2.0	4.2	2.4	5.8	.2	.6	.2					15.3	9.5
WSW	1.0	1.6	3.2	1.6	.6							8.0	8.8
W	.6	.6	.8	.6								2.6	6.9
WNW	.2											.2	2.0
NW	.2	.2										.4	4.5
NNW	.8	.6	.2									1.6	3.8
VARBL													
CALM												38.2	
	17.3	21.7	11.4	9.4	1.0	.8	.2					100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 502

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-67,76-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0600-0600  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.1	1.1	.5									2.7	4.5
NNE	2.0	.8	.5									3.3	3.8
NE	2.0	4.1	2.1	.3								8.5	5.3
ENE	1.9	4.0	.9	.3								7.0	4.9
E	1.6	1.9	.5	.3								4.2	4.9
ESE	.5	.1										.7	2.4
SE	.4	.3										.7	3.0
SSE	.9	.3										1.2	2.6
S	2.3	.1	.4									2.8	2.9
SSW	1.3	1.9	1.5	.7	.1							5.4	6.4
SW	1.3	3.3	3.9	3.2	.7	.1	.1					12.6	9.0
WSW	2.1	2.0	2.3	1.3	.7	.3						8.6	8.3
W	.7	1.2	1.2	.1								3.2	6.1
WNW	.5											.5	2.3
NW	.5	.4										.9	3.1
NNW	.7	.7	.3									1.6	4.3
VARBL			.1									.1	9.0
CALM												35.9	
	19.8	22.0	14.2	6.1	1.5	.4	.1					100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

753

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-67,76-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	.4	.6									3.0	3.6
NNE	1.3	1.2	.9	.1								3.5	5.0
NE	2.2	3.3	2.7									8.2	5.3
ENE	2.1	4.1	2.0	.4								8.6	5.4
E	1.1	2.8	1.0	.1								5.0	5.2
ESE	.8	.4	.3									1.6	4.4
SE	.6	.6	.1									1.2	3.3
SSE	1.2	.2	.1	.1								1.7	3.9
S	2.8	.6	.6	.1								4.0	3.9
SSW	1.4	2.2	2.4	.9	.1							7.1	7.0
SW	1.9	4.4	6.0	3.1	1.6							16.9	8.8
WSW	2.1	2.7	3.3	3.7	.3	.1						12.2	8.4
W	1.4	.8	1.9	.6	.2	.1						5.0	7.6
WNW	.1	.3		.3								.8	7.9
NW	.6	.3										.9	3.0
NNW	.4	.2	.2	.2								1.1	5.6
VARBL			.3	.3								.7	10.2
CALM												18.6	
	22.0	24.6	22.4	10.0	2.2	.2						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

903

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SENBACH AB DL  
STATION NAME

64-67, 76-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.2	.3									3.1	3.9
NNE	1.8	1.7	.8									4.2	4.3
NE	1.0	3.9	2.0	.4								7.2	5.9
ENE	1.3	4.3	3.5	.4								9.6	6.2
E	1.3	2.0	2.4	.3								6.1	6.1
ESE	.6	1.3	.1									2.2	4.4
SE	.1	.2	.1									.4	5.5
SSE	.4	.7	.2									1.3	4.8
S	1.4	1.3	.3	.6								3.6	5.2
SSW	1.2	1.8	4.1	1.8	.2	.1						9.2	6.3
SW	2.3	2.9	5.1	3.0	.7	.1						14.0	8.4
WSW	1.4	4.9	5.5	4.5	.4	.1						16.9	8.7
W	1.2	3.3	1.9	2.0	.1							8.5	7.6
WNW	.7	.7		.4								1.8	5.5
NW	.6	.2	.4									1.2	5.1
NNW	.8	.3	.3	.1								1.5	5.1
VARBL			.7	.2								.9	8.8
CALM												8.5	
	17.7	30.5	27.8	13.8	1.9	.3						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

906

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

64-67,76-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L S T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.2	.2									2.5	3.7
NNE	1.9	1.4	.1									3.4	3.7
NE	1.8	6.1	2.3	.1								10.3	5.4
ENE	2.4	5.7	3.1	.3								11.6	5.5
E	2.0	3.1	.7	.3								6.1	4.9
ESE	.3	.8	.7									1.8	5.7
SE	.4	.7	.1									1.2	4.3
SSE	.7	1.0	.1									1.8	4.1
S	1.3	1.4	1.1	.2								4.1	5.3
SSW	1.7	2.0	2.0	1.0	.1							6.7	6.7
SW	1.4	4.5	4.7	3.6	.7							15.0	8.4
WSW	1.8	4.1	4.3	2.6								12.8	7.5
W	1.7	2.8	2.5	1.3	.2							8.5	7.0
WNW	1.0	.4	.2									1.7	3.6
NW	.3	.6	1.1									2.0	6.3
NNW	.7	.6	.2									1.4	4.5
VARBL			.7		.1							.8	10.3
CALM												8.4	
	20.4	36.3	24.2	9.6	1.1							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 906

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

1 7123  
STATION

SENBACH AB DL  
STATION NAME

64-67,76-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.3	.1									1.1	3.6
NNE	1.2	1.3	.4									2.9	4.3
NE	3.2	4.0	1.2									8.3	4.3
ENE	3.7	4.2	1.2	.1								9.2	4.4
E	2.2	2.9	.5	.3								5.9	4.3
ESE	.9	.3										1.2	2.8
SE	1.2											1.2	2.2
SSE	1.6	.4	.1									2.1	2.9
S	2.4	1.2	.5									4.1	3.8
SSW	2.5	2.0	1.6	.8	.3							7.1	6.1
SW	2.4	4.2	2.9	2.6	.1							12.3	7.1
WSW	2.9	2.5	2.5	1.4								9.4	6.4
W	1.8	1.4	.8	.4	.1							4.6	5.6
WNW	.5	.8										1.3	3.9
NW	.8	.3	.4									1.4	3.9
NNW	.7	.7										1.3	3.4
VARBL				.1								.1	12.0
CALM												26.5	
	28.6	26.4	12.3	5.8	.5							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

759

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17120 SEMBACH AB DL STATION NAME 64-67,76-81 YEARS OCT  
CLASS ALL WEATHER HOURS (LST) 2100-2300  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5	.3									1.3	4.4
NNE	1.7	.6	.6									3.0	4.0
NE	3.6	3.1	1.7	.2								8.6	4.7
ENE	2.5	3.0	1.1	.5								7.1	4.8
E	2.5	1.9	.6	.2								5.2	4.2
ESE	.5	.3										.8	3.4
SE	.5	.2										.6	2.3
SSE	1.1	.2										1.3	2.8
S	2.2	.8	.9									3.9	4.6
SSW	.9	2.0	2.0	.6								5.7	6.9
SW	2.2	2.7	4.4	2.2	.5							11.9	7.7
WSW	1.4	2.7	1.9	.8	.3							7.1	6.8
W	1.9	1.9	1.4	.3								5.5	5.0
WNW	.5	.3	.2									.9	4.2
NW	.5	.2	.2									.8	3.4
NNW	.6	.2	.3									1.1	4.1
VARBL			.3	.2								.5	10.3
CALM												34.9	
	23.1	20.4	16.0	4.9	.8							100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 637



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17120  
STATION

SEMBACH AB DL  
STATION NAME

64-67,76-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L & N)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.8	.4									2.4	3.9
NNE	1.6	1.3	.5	.0								3.4	4.2
NE	2.2	4.2	2.1	.2								8.6	5.2
ENE	2.4	4.3	1.9	.3								8.9	5.2
E	1.7	2.2	.9	.2								5.1	4.8
ESE	.6	.5	.2									1.2	4.1
SE	.5	.3	.1									.8	3.3
SSE	.9	.5	.1	.0	.0							1.5	3.7
S	2.0	.9	.6	.1								3.7	4.3
SSW	1.5	1.9	2.1	.9	.2	.0						6.6	7.1
SW	1.8	3.7	4.3	3.3	.7	.1	.0					14.0	8.5
WSW	1.8	3.1	3.4	2.4	.3	.1						11.1	8.0
W	1.4	1.7	1.5	.8	.1	.0						5.6	6.7
WNW	.5	.4	.1	.1								1.1	4.5
NW	.5	.3	.3									1.1	4.6
NNW	.7	.5	.2	.1								1.4	4.4
VARBL			.3	.1	.0							.5	9.8
CALM												23.2	
	21.2	26.5	18.9	8.7	1.3	.2	.0					100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

5752

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-67.77.79  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L S T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.6	.5									3.0	4.7
NNE	1.9	1.1										3.0	3.0
NE	3.0	5.4	4.0	.3								12.6	5.6
ENE	3.5	3.5	2.2	.3								9.4	4.8
E	.3	1.9										2.2	4.0
ESE	.5	1.3	.3									2.2	4.5
SE	.8											.8	2.3
SSE		.3										.3	4.0
S	2.7	.8	1.1									4.6	3.9
SSW	2.4	1.3	1.9	.8								6.5	6.1
SW	1.9	2.2	2.2	5.6	1.9	.5						14.2	10.5
WSW	.8	1.3	5.4	3.5	1.3	.5						12.9	10.6
W	.3	1.3	1.1	1.9	.8							5.4	10.6
WNW	1.1											1.1	2.0
NW	.8											.8	2.7
NNW	.8	.8	.3	.3	.5							2.7	8.4
VARBL													
CALM												18.5	
	21.5	22.8	18.8	12.6	4.6	1.1						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 372

8  
2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

107120  
STATION

SENBACH AB DL  
STATION NAME

64-67, 76-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

3300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.8										1.7	3.4
NNE	1.5	1.3	.4	.4								3.6	4.9
NE	1.9	3.3	2.3	.4								7.9	5.6
ENE	1.7	4.2	2.3	.4								8.6	5.8
E	1.5	1.0	.8									3.3	4.4
ESE	.2	.2	.4	.2								1.0	7.2
SE	.6	.4										1.0	3.4
SSE	.8	.2	.4									1.5	4.6
S	.6	.4	.2									1.3	3.8
SSW	1.7	2.3	1.0	1.3	.4							6.7	7.0
SW	2.3	3.8	5.4	6.3	1.3	.4						19.5	9.5
WSW	1.5	2.3	4.8	2.1	1.7							12.3	9.2
W	1.0	.8	2.3	1.0	.6							5.9	6.6
WNW	.2		.4	.2								.8	7.8
NW	.4	.2										.6	3.3
NNW	.2	.6	.4		.4							1.7	9.0
VARBL													
CALM												22.6	
	16.9	22.0	21.3	12.3	4.4	.4						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 478

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

69-67.76-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

3600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.7	.1									2.3	3.4
NNE	1.1	1.3	.8	.1								3.4	5.4
NE	2.0	3.5	2.3	1.1								8.9	6.0
ENE	1.4	2.1	1.4									5.0	5.1
E	1.1	1.0	.7									2.8	4.8
ESE	.7	.6										1.3	3.0
SE	.7											.7	2.0
SSE	.6	.4	.3									1.3	4.4
S	1.8	.4	.4	.1								2.8	3.6
SSW	1.4	1.6	1.8	1.3	.1							6.2	7.5
SW	1.8	3.5	5.7	5.1	1.3	.4						17.8	9.5
WSW	1.8	4.4	4.7	3.1	1.1							15.2	8.4
W	1.3	1.3	2.0	1.4	.6							6.5	8.6
WNW	.3	.3	.4	.1								1.1	6.4
NW	.6	.3	.1									1.0	3.9
NNW	.4	.1	.4									1.0	5.0
VARBL			.3									.3	8.0
CALM												22.4	
	18.3	21.3	21.5	12.5	3.1	.4						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

706

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

17120 STATION SEMBACH AB DL 64-67,76-81 YEARS NOV  
STATION NAME CLASS ALL WEATHER HOURS 0900-1100  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	.6	.7	.1								2.8	4.8
NNE	.8	.9	.5	.5								2.7	6.0
NE	2.0	2.2	2.3	.9								7.5	6.3
ENE	1.1	2.6	2.7	.2								6.5	6.1
E	1.3	2.1	.8	.1								4.3	4.8
ESE	.8	.5										1.3	3.0
SE	.4		.1									.5	3.5
SSE	.7	.1	.5									1.3	4.7
S	1.8	.7	.8	.2								3.5	4.9
SSW	1.8	1.3	2.0	1.5	.2							6.8	7.6
SW	1.6	3.5	7.6	4.2	1.5	.7						19.2	9.8
WSW	1.5	4.0	6.0	5.4	1.2	.1						18.1	9.5
W	.8	1.8	2.6	.8	.4	.1						6.4	7.9
WNW	.4	.6										.9	3.9
NW	.7	.2	.2									1.2	4.0
NNW	.2	.7										.9	4.5
VARBL			.2	.4								.6	10.2
CALM												15.5	
	17.2	21.7	27.0	14.4	3.3	.9						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 856

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL 64-67,76-81 NOV  
STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
1200-1400  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.6	.5	.1								3.5	4.6
NNE	.9	1.3	1.2	.2								3.6	6.0
NE	1.7	2.4	2.4	1.2								7.8	6.6
ENE	1.0	2.7	2.7	.3								6.7	6.2
E	.9	1.3	1.0	.5								3.7	6.0
ESE	.3	.7	.5									1.5	5.2
SE	.3	.2	.2									.8	4.9
SSE	.3	.3	.5									1.2	5.4
S	.5	.6	.7	.2								2.0	6.0
SSW	.8	2.0	1.4	1.0	.3	.1						5.7	8.2
SW	1.2	2.9	7.3	6.3	1.4	.9	.1					20.1	10.7
WSW	1.5	3.7	7.2	7.1	1.6							21.2	9.8
W	1.3	2.7	2.7	1.7	.3							8.7	8.0
WNW	.6	.2	.2									1.0	4.2
NW	.2	.3	.2									.8	5.0
NNW	.5	1.4		.1								2.0	4.6
VARBL		.1	.8	.6								1.5	10.4
CALM												8.1	
	13.5	24.5	29.5	19.4	3.7	1.0	.1					100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 860

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL 64-67,76-81 YEARS NOV  
STATION NAME CLASS ALL WEATHER MONTH  
CONDITION 1500-1700  
HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	1.4	.2		.1							3.5	4.3
NNE	1.4	1.8	.7	.4		.1						4.3	5.4
NE	2.6	4.6	2.6	.7								10.4	5.6
ENE	2.3	2.6	1.3	.4								6.5	5.1
E	.8	2.8	.9									4.6	4.8
ESE	.5	.5	.7									1.6	5.7
SE	.1											.1	2.0
SSE	.4	.4		.1								.8	4.9
S	1.5	.6	1.8	.2								4.1	5.9
SSW	1.2	.7	2.1	1.2								5.1	7.7
SW	1.1	4.7	6.7	3.6	1.4	.9						18.3	9.7
WSW	2.2	3.5	6.7	4.6	1.3	.1						18.3	9.0
W	1.6	2.1	3.3	1.5	.9							9.5	8.1
WNW	.5	.8	.2	.1								1.6	5.1
NW	.1	.8										.9	4.3
NNW	.5	.8	.1									1.4	4.0
VARBL			.2	.7								.9	11.6
CALM												7.8	
	18.5	27.9	27.5	13.4	3.7	1.2						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 856

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17120 STATION NAME SEMBACH AB DL YEARS 64-67, 76-81 NOV NORTH  
CLASS ALL WEATHER 1800-2000 HOURS (L & T)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.7	.6									2.1	4.9
NNE	1.7	.9	1.0	.6								4.1	5.6
NE	2.4	3.3	1.4	1.0								8.1	5.7
ENE	2.3	3.4	1.7									7.4	4.7
E	2.0	1.3	.4									3.7	3.7
ESE	.6	.9	.3									1.7	4.4
SE	.4	.3	.4									1.1	5.5
SSE	.4	.9	.3									1.6	4.1
S	1.4	.6	1.9	.3								4.1	5.9
SSW	1.9	1.6	1.7	.3	.6							6.3	6.7
SW	1.4	3.7	3.7	5.7	1.4	.6						16.5	10.2
WSW	2.1	3.0	5.3	4.6	1.1	.1						16.3	9.2
W	.9	1.9	1.9	1.3		.3						6.1	8.2
WNW	.3	.4										.7	3.4
NW	.1	.1										.3	3.5
NNW	.9	.4	.4									1.7	4.1
VARBL				.1								.1	15.0
CALM												18.1	
	19.4	23.5	21.0	13.8	3.1	1.0						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 701



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

107120  
STATION

SENBACH AB DL

STATION NAME

64-67,76-81

DATE

NOV

MONTH

ALL WEATHER

CLASS

2100-2300

HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.0	.9									3.2	4.3
NNE	1.4	1.9	.3	.7								4.3	5.2
NE	2.6	3.1	.9	.7	.2							7.3	5.4
ENE	1.9	4.1	1.2	.3								7.5	5.2
E	1.2	.5	.5									2.2	4.5
ESE	.2	.7	.7									1.5	6.3
SE	.5	.2										.7	3.5
SSE	.5	.3	.2									1.0	3.8
S	1.0	1.0	.7	.2								2.9	5.3
SSW	1.5	1.7	1.0	1.4	.3							6.0	7.3
SW	1.4	2.9	4.6	3.6	2.0	1.0						15.5	10.5
WSW	2.4	4.3	5.3	4.3	.9	.2						17.2	8.5
W	1.5	.9	2.4	1.4	1.0	.3						7.5	9.9
WNW	.9											.9	2.0
NW	.3	.3										.7	3.0
NNW	.5	.3										.9	3.4
VARBL													
CALM												20.8	
	19.1	23.2	18.6	12.4	4.4	1.5						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

587

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AID WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17120 SEMBACH AB DL STATION NAME 64-67,76-81 YEARS NOV  
STATION MONTH  
ALL WEATHER CLASS ALL  
CONDITION HOURS (L & T)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.1	.4	.0	.0							2.8	4.4
NNE	1.3	1.3	.7	.4		.0						3.6	5.4
NE	2.2	3.3	2.2	.8	.0							8.6	5.9
ENE	1.8	3.0	1.9	.2								7.0	5.4
E	1.2	1.6	.7	.1								3.5	4.8
ESE	.5	.6	.4	.0								1.5	4.8
SE	.4	.1	.1									.7	3.8
SSE	.5	.4	.3	.0								1.1	4.6
S	1.4	.6	1.0	.2								3.2	5.1
SSW	1.5	1.5	1.7	1.1	.3	.0						6.1	7.4
SW	1.5	3.5	5.8	5.0	1.5	.7	.0					18.0	10.0
WSW	1.8	3.5	5.8	4.6	1.3	.1						17.0	9.2
W	1.1	1.7	2.4	1.4	.6	.1						7.2	8.5
WNW	.5	.4	.2	.1								1.1	4.5
NW	.4	.3	.1									.8	3.9
NNW	.5	.7	.2	.0	.1							1.5	5.3
VARBL		.0	.2	.3								.5	10.7
CALM												15.8	
	17.7	23.7	24.0	14.2	3.7	1.0	.0					100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 5416

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-67,77  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.3										1.1	3.0
NNE	.5											.5	3.0
NE	1.3	1.9	1.9	.8								5.9	6.3
ENE	1.1	2.4	.5									4.0	4.5
E	.8	.3	.3									1.3	4.0
ESE	.3											.3	2.0
SE	.5											.5	2.5
SSE	.3											.3	3.0
S	1.3	.5	.3									2.1	3.1
SSW	2.1	2.7	1.6	.5	.3							7.2	6.2
SW	1.9	1.9	5.6	11.8	1.6	1.6						24.4	11.8
WSW	1.6	2.7	4.0	7.2	1.6	.8						18.0	11.0
W	.8	4.8	4.3	2.7								12.6	8.0
WNW	.5	.5										1.1	3.5
NW	.3	1.1	.5									1.9	4.9
NNW	1.1	1.1		.3								2.4	4.3
VARBL													
CALM												16.4	
	15.3	20.1	19.0	23.3	3.5	2.4						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

373

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFC WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120  
STATION

SENBACH AB DL  
STATION NAME

64-67,76-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.2	.6									2.4	5.6
NNE	.6	.8	.6	.2								2.2	6.0
NE	2.4	2.2	1.2	1.0								6.9	5.6
ENE	1.0	1.6	1.6									4.3	5.2
E	.4	.4	.2									1.0	4.8
ESE	.4											.4	1.5
SE	.6	.2										.8	3.3
SSE	.6	.4										1.0	3.6
S	1.8	.8	.4									3.0	3.8
SSW	.6	.8	1.4	1.0	.4							4.3	8.8
SW	1.2	2.0	6.5	13.0	2.0	.6						25.4	11.6
WSW	.8	2.6	5.1	5.1	1.0	.6						15.2	10.6
W	1.4	2.0	4.5	1.2	.6	.2						10.0	8.3
WNW	.6	.6	.2									1.4	4.6
NW	.4	.2	.2									.8	3.8
NNW	1.2	1.2	.2									2.6	3.5
VARBL													
CALM												18.1	
	14.8	17.3	22.8	21.5	4.1	1.4						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 492

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-67,76-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.5	.9									2.4	5.1
NNE	1.6	.5	.9	.3								3.4	5.3
NE	1.9	2.8	2.0	.7								7.4	6.1
ENE	2.4	2.3	1.1									5.8	4.3
E	1.4	.4	.4									2.2	3.4
ESE	.4											.4	2.3
SE	.5											.5	2.3
SSE	1.1	.5										1.6	2.8
S	1.1	.7	.7									2.4	4.7
SSW	1.8	2.4	.9	1.5								6.6	6.4
SW	.7	2.3	5.4	8.4	3.1	.9						20.8	12.1
WSW	1.5	3.0	6.0	7.0	2.7							20.2	10.7
W	.3	1.9	1.8	1.1		.1						5.1	8.6
WNW	.1	.5	.3									.9	5.3
NW		.1										.1	6.0
NNW	.4	.3	.4									1.1	4.6
VARBL			.1									.1	8.0
CALM												18.7	
	16.1	18.4	21.0	18.9	5.8	1.1						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 739

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17120  
STATION

SENBACH AB DL  
STATION NAME

64-67, 76-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.8	.4	.1								1.8	5.3
NNE	1.1	.7	.3	.2								2.4	5.0
NE	1.7	3.1	2.4	.7								7.8	5.8
ENE	1.6	2.7	.9	.6								5.7	5.5
E	1.2	.8	.7									2.7	4.5
ESE	.6	.4	.2									1.2	4.3
SE	.6	.2	.1									.9	3.3
SSE	.9	.2	.1									1.2	3.0
S	1.3	.8	.4	.2								2.8	4.7
SSW	.9	1.7	1.7	2.1								6.4	8.0
SW	1.5	2.8	5.3	7.5	3.1	.6						20.7	11.5
WSW	1.2	3.0	6.1	8.0	2.6	.6						21.4	11.2
W	1.0	1.5	1.5	2.4	.1		.2					6.6	9.3
WNW	.3	.1	.3									.8	5.6
NW	.1	.2										.3	3.7
NNW	.8	.3	.2									1.3	4.2
VARBL			.2									.2	10.0
CALM												15.6	
	15.2	19.4	20.9	21.7	5.8	1.1	.2					100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 892

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-67,76-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.8	.7		.1							2.7	5.3
NNE	1.2	1.2	.4	.1								3.0	4.9
NE	1.8	1.9	1.6	.6								5.8	5.8
ENE	1.2	2.1	1.2	1.0								5.6	6.5
E	.9	1.3	1.1									3.4	5.5
ESE	.4	.4	.2									1.1	4.5
SE	.6	.4	.1									1.1	4.2
SSE	.2	1.0										1.2	4.0
S	.8	.6	1.0									2.3	5.5
SSW	.6	1.5	1.7	2.5	.6							6.7	9.5
SW	1.0	2.6	4.7	8.1	3.0	1.1						20.5	12.0
WSW	.7	2.5	6.0	8.3	3.8	.1	.1					21.5	11.7
W	1.5	2.1	2.1	3.2	.2	.1	.1					9.4	9.3
WNW	.1	.3	.6	.3								1.3	8.2
NW	.6	.4	.2									1.2	4.3
NNW	1.5	1.2	.1									2.8	3.6
VARBL			.6	.1								.7	8.7
CALM												9.6	
	14.1	20.5	22.4	24.2	7.7	1.3	.2					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

894

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

64-67,76-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	1.5	.2	.3								4.3	4.2
NNE	2.5	1.8	1.0	.4								5.7	5.0
NE	1.9	2.4	1.1	.7								6.0	5.4
ENE	1.0	2.8	1.5	.1								5.4	5.5
E	1.5	2.9	.8									5.2	4.6
ESE	.6	.8	.2									1.6	4.1
SE		.1										.1	6.0
SSE	1.0	.7										1.7	3.1
S	1.1	.7	.6									2.4	4.7
SSW	.4	2.0	1.6	1.3								5.4	7.7
SW	1.3	3.6	5.6	7.1	3.9	1.0						22.5	11.6
WSW	.9	2.2	5.3	5.7	1.0							15.9	10.6
W	1.2	2.1	2.8	2.7	.9	.2						10.0	9.5
WNW	.3	.1	.3	.2								1.0	6.4
NW	.8	.2	.2									1.2	3.6
NNW	1.2	.9	.3	.1								2.6	4.4
VARBL			.1	.4								.6	12.5
CALM												8.6	
	18.0	24.7	21.6	19.1	6.6	1.2						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

893



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFB WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120 STATION SEMBACH AB DL 64-67,76-81 YEARS DEC MONTH  
ALL WEATHER CLASS 1800-2000 HOURS (LST)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.1	.4									2.3	4.3
NNE	1.5	1.6	.8	.1								4.1	4.6
NE	2.2	2.4	2.0	.1								6.8	5.2
ENE	1.9	2.4	1.1									5.4	4.8
E	1.6	1.1	.4									3.1	3.7
ESE	.1	.1	.1	.1								.5	7.0
SE	.5											.5	2.5
SSE	1.1	.3										1.4	2.9
S	1.2	.5	.4	.3								2.4	4.6
SSW	1.2	1.6	1.5	1.2	.3	.1						6.0	8.0
SW	1.6	3.5	5.4	6.7	3.3	.7	.3					21.5	11.4
WSW	1.6	3.0	4.2	5.8	2.4	.1						17.3	10.7
W	1.9	1.6	1.9	1.5	.3	.1						7.3	7.7
WNW	.7	.1	.4	.1	.1							1.5	6.7
NW		.4	.1									.5	5.5
NNW	.1	.7	1.1									1.9	5.9
VARBL			.1		.1							.3	12.5
CALM												17.1	
	18.2	20.7	20.1	16.0	6.5	1.1	.3					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 736

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120      SEMBACH AB DL      64-67,76-81      DEC  
STATION      STATION NAME      YEARS      MONTH  
ALL WEATHER  
CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.8	.8	.3								2.6	6.2
NNE	1.6	1.8	.7	.2								4.3	4.7
NE	.8	2.3	1.0	.7								4.8	6.2
ENE	2.0	1.6	1.6	.2								5.4	5.0
E	.8	1.0	.3									2.1	4.2
ESE	1.1	.2		.2								1.5	3.4
SE	.2											.2	1.0
SSE	.7											.7	2.3
S	2.6	.7	.2									3.4	2.9
SSW	1.1	1.5	1.5	.8	.3							5.3	7.1
SW	1.1	3.6	5.1	9.0	3.1	1.1						23.2	11.7
WSW	.8	3.3	5.1	5.6	1.8							16.6	10.3
W	1.1	1.6	2.1	3.0	.7							8.5	9.5
WNW	.2	.3	.5	.3								1.3	8.3
NW	.2	.5	.2									.8	4.8
NNW	.5	.3	.5	.2								1.5	6.2
VARBL													
CALM												17.9	
	15.6	19.5	19.5	20.4	5.9	1.1						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS      609

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 7120 STATION SEMBACH AB DL STATION NAME 64-67,76-81 YEARS DEC  
STATION NORTH  
ALL WEATHER CLASS ALL  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.9	.5	.1	.0							2.6	4.9
NNE	1.4	1.1	.6	.2								3.4	4.9
NE	1.8	2.4	1.7	.6								6.5	5.8
ENE	1.5	2.3	1.2	.3								5.3	5.3
E	1.1	1.2	.6									2.9	4.5
ESE	.5	.3	.1	.0								1.0	4.1
SE	.4	.1	.0									.6	3.3
SSE	.8	.4	.0									1.2	3.1
S	1.4	.7	.5	.1								2.6	4.4
SSW	1.0	1.8	1.5	1.5	.2	.0						6.0	7.8
SW	1.3	2.9	5.4	8.5	3.1	.9	.0					22.0	11.7
WSW	1.1	2.8	5.3	6.7	2.4	.2	.0					18.6	10.9
W	1.2	2.0	2.4	2.3	.4	.1	.1					8.4	8.9
WNW	.3	.3	.4	.1	.0							1.2	6.4
NW	.3	.4	.2									.8	4.3
NNW	.9	.7	.4	.1								2.0	4.4
VARBL			.2	.1	.0							.3	10.5
CALM												14.7	
	16.0	20.3	21.0	20.5	6.0	1.3	.1					100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 5628

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

107120 STATION SEMBACH AB DL 64-68,76-81 YEARS ALL MONTH ALL HOUR (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.5	.8	.1	.0							3.6	4.9
NNE	1.3	1.5	.9	.2	.0	.0						3.8	5.2
NE	1.8	3.3	2.1	.6	.0							7.7	5.8
ENE	1.6	2.7	1.8	.4	.0							6.4	5.6
E	1.2	1.4	.9	.2	.0							3.7	5.3
ESE	.5	.4	.3	.1								1.3	5.1
SE	.5	.3	.1	.0								.9	4.1
SSE	.7	.4	.1	.0	.0							1.2	3.8
S	1.4	.8	.5	.1	.0							2.7	4.4
SSW	1.2	1.4	1.4	.7	.1	.0						4.8	6.8
SW	1.3	2.9	4.0	3.2	.7	.2	.0	.0				12.3	9.2
WSW	1.6	3.3	5.0	3.6	.8	.1	.0	.0				14.4	8.9
W	1.6	2.8	3.5	1.9	.2	.0	.0					10.0	7.7
WNW	.7	.8	.5	.2	.0							2.2	5.5
NW	.5	.7	.4	.1	.0							1.7	5.2
NNW	.9	1.1	.6	.1	.0							2.8	5.2
VARBL	.5	.2	.7	.2	.0	.0						1.6	6.5
CALM												19.0	
	18.2	25.4	23.5	11.6	1.9	.4	.0	.0				100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 70861

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

107120  
STATION

SEMBACH AB DL  
STATION NAME

64-68,76-81  
YEARS

ALL  
MONTH

INSTRUMENT

ALL

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,  
CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.2	.7	.1	.0							3.1	4.8
NNE	1.4	1.4	.8	.1	.0							3.7	4.9
NE	2.3	3.6	2.1	.6								8.7	5.6
ENE	1.9	2.4	1.4	.2	.0							5.9	5.2
E	1.2	1.2	.7	.1								3.2	4.9
ESE	.4	.3	.2	.0								.9	4.6
SE	.4	.1	.0									.6	3.4
SSE	.4	.2	.0									.7	3.3
S	1.2	.5	.2	.0								1.9	3.7
SSW	1.3	1.6	1.2	.7	.1	.0						4.9	6.5
SW	1.5	3.8	5.6	5.5	1.4	.5	.0					18.2	9.9
WSW	1.7	3.6	6.3	4.8	1.1	.1	.0	.0				17.7	9.3
W	1.4	2.3	2.4	1.1	.2	.0						7.5	7.3
WNW	.6	.5	.2	.0								1.4	4.3
NW	.4	.5	.2	.0								1.1	4.6
NNW	.5	.8	.4	.1	.0							1.8	5.2
VARBL	.3	.0	.2	.1	.0							.6	5.5
CALM												18.1	
	18.1	24.1	22.7	13.5	2.8	.6	.0	.0				100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

15161

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART D

CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{5}{16}$	$\geq \frac{1}{4}$	$\geq 0$	
NO CEILING																
1800																
1500					91.0											92.6
1200																
1000																
900																
800																
700																
600																
500																
400									97.4							98.1
300																
200																
100																
0					95.4		96.9		98.3							100.0

**EXAMPLE # 1** Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

**EXAMPLE # 2** Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

**EXAMPLE # 3** To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

#### ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.  
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $> 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

120  
STATION

SENBACH AB DL  
STATION NAME

65-68,80-81  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-2359  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	¾
NO CEILING	7.2	14.2	16.1	19.0	21.4	22.5	24.9	25.2	25.2	25.2	25.2	25.5	25.7	26.3	26.3	26.3
≥ 20000	7.2	14.2	16.6	19.6	22.0	23.1	25.5	25.7	25.7	25.7	25.7	26.0	26.3	26.8	26.8	26.8
≥ 18000	7.2	14.2	16.6	19.6	22.0	23.1	25.5	25.7	25.7	25.7	25.7	26.0	26.3	26.8	26.8	26.8
≥ 16000	7.2	14.2	16.6	19.6	22.0	23.1	25.5	25.7	25.7	25.7	25.7	26.0	26.3	26.8	26.8	26.8
≥ 14000	7.2	14.2	16.6	19.6	22.0	23.1	25.5	25.7	25.7	25.7	25.7	26.0	26.3	26.8	26.8	26.8
≥ 12000	7.2	14.7	17.2	20.1	22.5	23.6	26.0	26.3	26.3	26.3	26.3	26.5	26.8	27.3	27.3	27.3
≥ 10000	7.2	14.7	17.4	20.4	22.8	23.9	26.3	26.5	26.5	26.5	26.5	26.8	27.1	27.6	27.6	27.6
≥ 9000	7.2	15.8	18.8	21.7	24.4	25.5	27.9	28.2	28.2	28.2	28.2	28.4	28.7	29.2	29.2	29.2
≥ 8000	7.8	17.4	20.9	23.9	27.6	29.5	31.9	32.2	32.2	32.2	32.2	32.4	32.7	33.2	33.2	33.2
≥ 7000	7.8	18.0	21.4	24.7	28.7	30.6	33.0	33.5	33.5	33.5	33.5	33.8	34.0	34.6	34.6	34.6
≥ 6000	8.1	19.6	23.3	26.8	30.8	33.0	35.7	36.2	36.2	36.2	36.2	36.5	36.7	37.3	37.3	37.3
≥ 5000	8.6	21.4	25.2	29.5	33.5	35.7	38.6	39.1	39.1	39.1	39.1	39.4	39.7	40.2	40.2	40.2
≥ 4500	8.6	22.5	26.3	30.8	34.9	37.0	39.9	40.5	40.5	40.5	40.5	40.8	41.0	41.6	41.6	41.6
≥ 4000	8.6	23.1	26.8	31.4	35.7	37.8	40.8	41.3	41.6	41.6	41.6	41.8	42.1	42.6	42.6	42.6
≥ 3500	9.1	24.4	29.0	34.3	38.9	41.0	44.0	44.5	44.8	44.8	44.8	45.0	45.3	45.8	45.8	45.8
≥ 3000	9.1	25.7	30.3	35.7	40.2	42.4	45.3	45.8	46.1	46.1	46.1	46.4	46.9	47.7	47.7	47.7
≥ 2500	9.4	26.8	31.9	37.3	42.4	44.8	47.7	48.5	48.8	48.8	48.8	49.1	49.6	50.4	50.4	50.4
≥ 2000	11.3	29.2	34.9	41.0	46.1	48.5	52.3	53.4	53.6	53.6	53.6	53.9	54.4	55.2	55.2	55.2
≥ 1800	11.5	30.6	36.5	42.6	47.7	50.1	54.4	55.5	55.8	55.8	55.8	56.0	56.6	57.4	57.4	57.4
≥ 1500	11.8	33.2	39.7	46.1	51.2	53.9	58.4	59.8	60.1	60.1	60.1	60.3	60.9	61.7	61.7	61.7
≥ 1200	12.6	34.9	41.8	49.9	55.5	58.2	64.3	65.7	66.2	66.2	66.8	67.3	67.8	68.6	68.6	68.6
≥ 1000	12.6	35.9	42.9	52.0	58.2	61.1	68.1	69.4	70.0	70.0	70.5	71.0	71.6	72.4	72.4	72.4
≥ 900	12.6	37.0	44.2	54.7	62.5	65.4	72.4	73.7	74.3	74.3	74.9	75.3	75.9	76.7	76.7	76.7
≥ 800	12.6	37.3	45.3	57.4	66.2	69.2	76.4	77.7	78.3	78.6	79.1	79.6	80.2	81.0	81.0	81.0
≥ 700	12.6	38.3	47.2	60.6	70.0	73.2	81.8	83.1	83.6	83.9	84.5	85.0	85.5	86.3	86.3	86.3
≥ 600	12.6	38.3	47.2	61.1	70.8	74.5	84.2	85.8	86.3	86.6	87.1	87.7	88.2	89.0	89.0	89.0
≥ 500	12.6	38.3	47.2	61.4	72.1	75.9	85.8	87.7	88.2	88.5	89.0	89.5	90.1	90.9	90.9	90.9
≥ 400	12.6	38.3	47.5	61.7	72.9	76.7	87.1	89.3	89.8	90.1	90.6	91.2	91.7	92.5	92.5	92.5
≥ 300	12.6	38.3	47.5	61.7	72.9	76.7	87.4	90.3	91.4	92.5	93.0	93.8	94.4	95.2	95.2	95.2
≥ 200	12.6	38.3	47.5	61.7	72.9	76.7	87.4	90.3	92.0	93.8	94.9	95.7	96.5	97.9	97.9	98.4
≥ 100	12.6	38.3	47.5	61.7	72.9	76.7	87.4	90.3	92.2	94.1	95.2	96.2	97.3	98.7	98.9	100.0
≥ 0	12.6	38.3	47.5	61.7	72.9	76.7	87.4	90.3	92.2	94.1	95.2	96.2	97.3	98.7	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 173

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
7120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68, 77-81

MONTH  
JAN

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)  
0300-0500

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	6.1	11.3	14.0	14.8	17.1	20.3	22.3	22.5	22.5	23.0	23.0	23.0	23.0	23.0	23.0	23.0
≥ 20000	6.5	11.7	14.6	15.4	17.7	20.9	23.0	23.2	23.2	23.6	23.6	23.6	23.6	23.6	23.6	23.6
≥ 18000	6.5	11.7	14.6	15.4	17.7	20.9	23.0	23.2	23.2	23.6	23.6	23.6	23.6	23.6	23.6	23.6
≥ 16000	6.5	11.7	14.6	15.4	17.7	20.9	23.0	23.2	23.2	23.6	23.6	23.6	23.6	23.6	23.6	23.6
≥ 14000	6.7	11.9	14.8	15.7	19.0	21.1	23.2	23.4	23.4	23.8	23.8	23.8	23.8	23.8	23.8	23.8
≥ 12000	7.1	12.7	15.7	16.5	18.8	21.9	24.0	24.2	24.2	24.6	24.6	24.6	24.6	24.6	24.6	24.6
≥ 10000	7.7	13.4	16.3	17.1	19.6	22.8	24.8	25.1	25.1	25.5	25.5	25.5	25.5	25.5	25.5	25.5
≥ 9000	7.7	14.0	16.9	17.7	20.3	23.4	25.7	25.9	25.9	26.3	26.3	26.3	26.3	26.3	26.3	26.3
≥ 8000	8.1	15.0	18.0	19.2	21.9	25.3	28.0	28.2	28.2	28.6	28.6	28.6	28.6	28.6	28.6	28.6
≥ 7000	8.4	15.7	19.0	20.5	23.2	26.5	29.2	29.4	29.6	30.1	30.1	30.1	30.1	30.1	30.1	30.1
≥ 6000	9.0	17.3	20.9	22.3	25.1	28.4	31.3	31.5	31.7	32.2	32.2	32.2	32.2	32.2	32.2	32.2
≥ 5000	9.0	17.3	20.9	22.3	25.5	28.8	32.2	32.4	32.6	33.0	33.0	33.0	33.0	33.0	33.0	33.0
≥ 4500	9.4	18.0	21.5	23.2	26.1	29.4	33.0	33.2	33.4	33.8	33.8	33.8	33.8	33.8	33.8	33.8
≥ 4000	10.4	19.8	23.4	25.1	28.0	31.3	35.1	35.3	35.5	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 3500	10.9	20.7	24.2	26.3	29.4	32.8	36.5	36.7	37.0	37.6	37.6	37.6	37.6	37.6	37.6	37.6
≥ 3000	11.9	22.5	26.3	28.8	32.2	35.5	39.7	39.9	40.1	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 2500	12.9	25.9	29.9	32.4	36.5	39.9	44.5	45.1	45.3	45.9	45.9	45.9	45.9	45.9	45.9	45.9
≥ 2000	15.2	29.9	34.9	38.4	42.6	46.1	51.4	52.0	52.2	52.8	52.8	52.8	52.8	53.2	53.2	53.2
≥ 1800	15.2	29.9	35.3	39.0	43.4	47.2	53.0	53.7	53.9	54.5	54.5	54.5	54.5	54.9	54.9	54.9
≥ 1500	15.9	31.3	37.0	41.3	46.8	50.5	57.0	57.6	57.8	58.7	58.7	58.7	58.7	59.1	59.1	59.1
≥ 1200	16.3	34.0	39.9	45.5	52.2	56.4	63.7	64.5	64.7	65.8	65.8	65.8	65.8	66.4	66.4	66.4
≥ 1000	16.9	34.2	40.9	46.8	54.5	59.3	66.8	67.8	68.1	69.1	69.3	69.3	69.3	69.9	69.9	69.9
≥ 900	16.5	34.2	41.8	49.3	57.6	62.6	70.1	71.2	71.6	72.7	72.9	72.9	72.9	73.5	73.5	73.5
≥ 800	16.7	35.3	43.6	51.8	61.0	66.2	73.7	74.9	75.6	77.2	77.5	77.5	77.5	78.1	78.1	78.3
≥ 700	17.1	35.7	45.1	54.1	64.3	69.9	77.9	79.5	80.2	82.0	82.3	82.3	82.3	82.9	83.1	83.3
≥ 600	17.3	36.1	45.9	55.5	66.0	71.8	81.0	82.9	83.5	85.4	85.6	85.6	85.6	86.2	86.4	86.8
≥ 500	17.3	36.3	46.3	55.9	66.8	73.3	82.9	85.2	85.8	88.1	88.3	88.3	88.3	88.9	89.1	89.6
≥ 400	17.5	36.5	46.6	56.2	67.2	73.9	84.8	87.5	88.1	90.6	91.0	91.0	91.2	91.9	92.1	92.5
≥ 300	17.5	36.5	46.6	56.4	67.4	74.1	85.4	88.9	89.8	92.5	92.9	93.3	93.5	94.4	94.6	95.4
≥ 200	17.5	36.5	46.6	56.4	67.4	74.1	85.6	89.4	90.4	93.5	94.6	95.0	95.2	96.5	97.1	98.5
≥ 100	17.5	36.5	46.6	56.4	67.4	74.1	85.6	89.4	90.4	93.7	94.8	95.4	95.6	97.3	98.1	100.0
≥ 0	17.5	36.5	46.6	56.4	67.4	74.1	85.6	89.4	90.4	93.7	94.8	95.4	95.6	97.3	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 479

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

107120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,77-81  
YEARS

JAN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

600-1800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING	6.9	9.9	11.5	12.3	14.0	15.2	16.5	17.3	17.6	18.8	18.8	19.1	19.1	19.5	19.9	20.2
≥ 20000	7.6	10.6	12.3	13.2	14.9	16.0	17.3	18.2	18.5	19.6	19.6	19.9	19.9	20.3	20.8	21.1
IN 18000	7.6	10.6	12.3	13.2	14.9	16.0	17.5	18.3	18.6	19.8	19.8	20.1	20.1	20.5	20.9	21.2
IN 16000	7.6	10.6	12.3	13.2	14.9	16.0	17.5	18.3	18.6	19.8	19.8	20.1	20.1	20.5	20.9	21.2
IN 14000	7.6	10.6	12.3	13.2	14.9	16.0	17.5	18.3	18.6	19.8	19.8	20.1	20.1	20.5	20.9	21.2
IN 12000	7.7	10.7	12.4	13.5	15.2	16.3	17.8	18.6	18.9	20.1	20.1	20.3	20.3	20.8	21.2	21.5
IN 10000	7.7	11.2	13.0	13.9	15.6	16.8	18.2	19.1	19.3	20.5	20.5	20.8	20.8	21.2	21.6	21.9
IN 9000	7.9	11.6	13.5	14.3	16.2	17.5	19.5	20.3	20.6	21.8	21.8	22.1	22.1	22.5	23.1	23.4
IN 8000	8.0	12.5	14.3	15.6	17.8	19.1	21.3	22.2	22.5	23.6	23.6	23.9	23.9	24.4	24.9	25.2
IN 7000	8.2	12.9	15.0	16.8	19.2	20.5	22.8	23.6	23.9	25.1	25.1	25.8	25.8	25.8	26.4	26.6
IN 6000	8.3	13.8	16.2	18.1	20.5	21.9	24.5	25.4	25.6	26.8	26.8	27.1	27.1	27.5	28.1	28.4
IN 5000	8.5	14.0	16.6	18.5	21.6	23.1	25.6	26.5	26.8	27.9	27.9	28.2	28.2	28.7	29.2	29.5
IN 4500	9.0	14.6	17.2	19.1	22.2	23.6	26.5	27.4	27.7	28.8	28.8	29.1	29.1	29.5	30.1	30.4
IN 4000	9.9	15.9	18.6	20.5	23.8	25.2	28.2	29.1	29.4	30.5	30.5	30.8	30.8	31.2	31.8	32.1
IN 3500	10.6	16.8	19.6	21.8	25.4	26.8	29.9	31.4	31.7	32.8	32.8	33.1	33.1	33.5	34.1	34.4
IN 3000	11.7	18.9	22.2	24.4	28.4	30.1	33.2	34.7	35.0	36.1	36.1	36.4	36.4	37.0	37.5	37.8
IN 2500	12.9	21.3	24.8	27.2	31.9	33.8	37.2	38.7	39.0	40.1	40.1	40.4	40.4	41.0	41.5	41.8
IN 2000	14.6	24.5	28.5	31.5	36.8	39.0	43.1	44.7	45.0	46.1	46.1	46.8	46.8	47.0	47.6	47.9
IN 1800	16.0	26.1	30.4	33.7	39.3	41.4	46.0	47.6	47.9	49.0	49.1	49.4	49.4	50.0	50.6	50.9
IN 1500	17.3	28.5	33.5	37.5	44.8	46.7	51.9	53.6	54.0	55.3	55.4	55.7	55.7	56.4	57.0	57.3
IN 1200	18.6	31.5	37.2	42.3	50.9	53.4	59.3	61.2	61.7	63.2	63.3	63.6	63.6	64.3	64.9	65.2
IN 1000	18.9	32.4	38.7	44.1	54.4	57.6	63.8	66.0	66.9	68.6	68.9	69.2	69.2	69.9	70.5	70.8
IN 900	19.5	33.2	39.5	45.7	56.9	60.2	66.8	69.2	70.2	71.9	72.2	72.5	72.5	73.2	73.8	74.1
IN 800	19.8	34.0	40.4	47.0	58.9	62.2	69.1	71.9	73.1	74.9	75.4	75.6	75.6	76.4	76.9	77.2
IN 700	20.2	34.8	41.5	48.4	61.3	64.8	71.8	74.9	76.1	78.5	78.9	79.4	79.4	80.1	80.7	80.9
IN 600	20.2	35.1	42.0	49.6	63.0	66.8	74.6	78.2	79.5	82.1	82.5	83.0	83.0	83.7	84.2	84.5
IN 500	20.2	35.2	42.1	50.1	64.3	68.3	76.5	80.9	82.4	85.8	86.2	86.8	87.0	87.7	88.3	88.5
IN 400	20.2	35.2	42.3	50.3	65.0	69.3	78.2	82.8	84.8	88.5	89.8	90.4	90.7	91.5	92.1	92.7
IN 300	20.2	35.2	42.3	50.3	65.3	69.8	78.8	84.5	86.7	91.0	92.6	93.1	93.6	94.4	95.0	96.1
IN 200	20.2	35.2	42.4	50.4	65.5	69.9	79.2	85.2	87.7	92.3	94.1	95.0	96.0	97.6	98.6	100.0
IN 100	20.2	35.2	42.4	50.4	65.5	69.9	79.2	85.2	87.7	92.3	94.1	95.0	96.0	97.6	98.6	100.0
IN 0	20.2	35.2	42.4	50.4	65.5	69.9	79.2	85.2	87.7	92.3	94.1	95.0	96.0	97.6	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 696

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AL- WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,77-81

MONTH  
JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)  
1922-1104

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	6.4	8.8	10.7	11.9	13.2	14.3	15.1	16.1	17.4	18.3	18.4	18.6	18.9	19.1	19.1	19.6
≥ 20000	7.2	9.7	11.5	12.9	14.7	15.9	16.8	18.0	19.4	20.2	20.3	20.6	20.8	21.1	21.1	21.6
≥ 18000	7.2	9.7	11.5	12.9	14.7	15.9	16.8	18.0	19.4	20.2	20.3	20.6	20.8	21.1	21.1	21.6
≥ 16000	7.2	9.7	11.5	12.9	14.7	15.9	16.8	18.0	19.4	20.2	20.3	20.6	20.8	21.1	21.1	21.6
≥ 14000	7.4	9.8	11.6	13.0	15.0	16.2	17.2	18.4	19.7	20.6	20.7	21.0	21.2	21.4	21.4	21.9
≥ 12000	7.5	10.0	12.3	13.6	15.6	16.9	17.9	19.1	20.5	21.3	21.4	21.7	21.9	22.2	22.2	22.7
≥ 10000	7.6	11.0	13.2	14.6	17.2	18.5	19.5	20.8	22.2	23.0	23.2	23.4	23.7	23.9	23.9	24.4
≥ 9000	8.6	12.0	14.2	15.6	18.3	19.6	20.8	22.2	23.5	24.4	24.5	24.8	25.0	25.2	25.2	25.7
≥ 8000	9.2	13.1	15.3	16.8	19.9	21.2	22.5	23.9	25.2	26.2	26.3	26.6	26.8	27.1	27.1	27.7
≥ 7000	9.7	13.8	16.3	17.8	21.3	22.7	24.1	25.7	27.1	28.2	28.4	28.7	28.9	29.2	29.2	29.8
≥ 6000	9.9	14.5	16.9	18.4	22.2	23.9	25.5	27.2	28.6	29.8	30.0	30.3	30.5	30.8	30.8	31.4
≥ 5000	11.7	15.9	18.4	20.1	23.5	25.6	27.3	29.0	30.5	31.7	32.0	32.4	32.6	32.8	32.8	33.5
≥ 4500	11.4	16.5	19.1	21.0	25.1	27.6	29.3	31.1	32.6	33.8	34.1	34.4	34.7	34.9	34.9	35.5
≥ 4000	12.6	17.9	20.6	22.5	27.3	29.8	31.5	33.3	34.9	36.2	36.4	36.8	37.0	37.3	37.3	37.9
≥ 3500	14.0	19.9	22.7	24.8	30.0	32.5	34.2	36.0	37.7	39.0	39.2	39.6	39.8	40.1	40.1	40.7
≥ 3000	15.1	21.7	24.8	27.1	32.8	35.3	37.0	38.8	40.6	41.8	42.0	42.5	42.8	43.0	43.0	43.8
≥ 2500	16.4	23.8	26.8	29.3	36.5	39.2	41.3	43.1	44.9	46.2	46.4	46.9	47.2	47.5	47.5	48.3
≥ 2000	17.6	26.1	29.2	32.8	40.6	43.8	46.4	48.4	50.1	51.5	51.8	52.5	52.8	53.2	53.2	53.9
≥ 1800	18.6	27.5	30.5	34.3	42.0	45.3	48.0	50.2	52.0	53.3	53.7	54.3	54.7	55.0	55.0	55.8
≥ 1500	20.6	30.4	33.8	38.1	46.3	50.0	52.9	55.6	57.4	58.7	59.3	59.9	60.3	60.7	60.7	61.4
≥ 1200	21.7	32.7	36.6	41.4	51.0	54.8	57.7	61.0	62.9	64.2	64.8	65.4	65.8	66.2	66.2	66.9
≥ 1000	22.3	33.7	38.5	43.6	53.9	58.1	61.3	65.0	66.9	68.5	69.1	69.7	70.1	70.5	70.5	71.2
≥ 900	22.9	34.7	39.7	45.0	55.8	59.9	63.4	67.5	69.6	71.3	71.9	72.5	72.9	73.3	73.3	74.0
≥ 800	23.4	35.7	40.8	46.4	57.6	62.0	65.8	70.1	72.4	74.4	75.2	76.0	76.3	76.7	76.7	77.5
≥ 700	23.4	35.9	41.4	48.0	59.8	64.3	68.4	72.8	75.1	77.1	77.9	78.7	79.0	79.5	79.7	80.4
≥ 600	23.7	36.3	42.5	49.8	61.8	66.7	71.3	76.6	78.9	81.4	82.4	83.1	83.8	84.3	84.4	85.2
≥ 500	23.7	36.4	42.8	50.1	62.9	67.8	73.0	78.8	81.4	84.8	85.8	86.5	87.4	87.9	88.1	88.8
≥ 400	23.8	36.8	43.2	50.5	63.4	68.8	74.4	81.0	83.8	87.6	89.0	89.7	90.6	91.2	91.5	92.3
≥ 300	23.8	36.8	43.1	50.5	63.4	68.8	74.5	81.7	84.7	89.5	91.4	92.9	93.8	94.7	95.1	96.2
≥ 200	23.8	36.8	43.2	50.5	63.4	68.8	74.6	82.1	85.4	90.2	92.5	94.5	95.6	97.1	97.7	99.0
≥ 100	23.8	36.8	43.2	50.5	63.4	68.8	74.6	82.1	85.4	90.2	92.5	94.5	95.6	97.2	97.9	99.9
≥ 0	23.8	36.8	43.2	50.5	63.4	68.8	74.6	82.1	85.4	90.2	92.5	94.6	95.7	97.3	98.0	100.0

TOTAL NUMBER OF OBSERVATIONS 814

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
120

STATION NAME  
SEMBACH AB DL

55-68,77-81

YEARS

MONTH  
JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING	7.9	12.3	13.3	15.0	17.5	19.0	19.3	20.7	21.0	21.5	21.5	21.5	21.5	21.8	21.8	21.9
≥ 20000	9.2	13.3	15.1	17.0	19.7	20.2	21.5	22.9	23.2	23.7	23.7	23.7	23.8	24.0	24.0	24.1
≥ 18000	9.3	13.3	15.2	17.0	19.7	20.2	21.5	22.9	23.2	23.7	23.7	23.7	23.8	24.0	24.0	24.1
≥ 16000	9.3	13.4	15.2	17.1	19.8	20.3	21.6	23.0	23.3	23.8	23.8	23.8	23.8	24.0	24.1	24.2
≥ 14000	9.3	13.7	15.5	17.5	20.2	20.7	22.0	23.3	23.7	24.2	24.2	24.2	24.3	24.4	24.4	24.6
≥ 12000	9.7	14.2	16.0	18.0	20.7	21.1	22.5	23.8	24.2	24.7	24.7	24.7	24.8	24.9	24.9	25.1
≥ 10000	10.0	15.2	17.1	19.2	22.1	22.6	24.0	25.3	25.7	26.2	26.2	26.2	26.3	26.4	26.4	26.5
≥ 9000	11.0	16.1	18.1	20.2	23.1	23.6	24.9	26.3	26.7	27.1	27.1	27.1	27.3	27.4	27.4	27.5
≥ 8000	12.2	17.7	19.8	22.0	25.1	25.6	26.9	28.2	28.6	29.1	29.1	29.1	29.2	29.3	29.3	29.5
≥ 7000	13.0	18.5	20.7	23.2	26.3	26.8	28.1	29.5	29.8	30.3	30.3	30.3	30.4	30.6	30.6	30.7
≥ 6000	13.2	18.8	21.0	23.7	26.9	27.4	28.7	30.2	30.7	31.3	31.3	31.3	31.4	31.5	31.5	31.8
≥ 5000	13.9	19.8	22.1	25.1	28.2	28.7	30.1	31.5	32.2	32.8	32.8	32.8	32.9	33.0	33.0	33.3
≥ 4500	14.8	21.1	23.5	26.4	29.8	30.6	32.2	33.7	34.4	35.1	35.1	35.1	35.2	35.3	35.3	35.6
≥ 4000	16.0	23.1	25.4	28.4	32.0	32.8	34.5	36.1	36.7	37.5	37.5	37.5	37.7	37.8	37.8	38.0
≥ 3500	17.2	25.3	27.6	30.8	35.0	35.8	37.8	39.6	40.2	41.1	41.1	41.1	41.2	41.3	41.3	41.6
≥ 3000	18.8	28.0	30.3	33.9	39.4	40.2	42.3	44.1	44.7	45.6	45.6	45.6	45.7	45.8	45.8	46.1
≥ 2500	20.2	30.6	33.3	37.2	42.9	43.8	45.8	47.7	48.3	49.1	49.1	49.1	49.3	49.4	49.4	49.6
≥ 2000	23.2	35.6	40.1	44.5	51.3	52.2	55.0	57.0	57.6	58.8	58.8	58.8	58.8	58.7	58.7	58.9
≥ 1800	23.8	36.7	41.2	46.0	52.9	53.9	56.7	58.8	59.4	60.4	60.4	60.4	60.5	60.6	60.6	60.9
≥ 1500	25.2	38.5	43.9	49.1	56.7	58.3	61.5	64.2	65.0	66.1	66.1	66.1	66.4	66.5	66.5	66.7
≥ 1200	26.0	40.5	46.3	52.4	61.2	63.3	66.7	69.9	70.8	72.0	72.0	72.1	72.4	72.5	72.5	72.7
≥ 1000	26.5	41.6	47.8	54.8	64.4	66.7	70.7	74.0	74.9	76.2	76.3	76.4	76.8	76.9	76.9	77.1
≥ 900	26.8	41.9	48.4	55.7	65.5	67.8	72.2	75.9	76.9	78.6	78.7	78.9	79.2	79.3	79.3	79.6
≥ 800	27.1	42.7	49.5	57.6	68.0	70.9	75.3	79.2	80.8	82.8	82.9	83.0	83.5	83.7	83.7	84.0
≥ 700	27.3	42.9	50.0	58.4	69.9	73.2	78.0	82.3	83.9	85.8	85.9	86.1	86.6	86.8	86.8	87.0
≥ 600	27.3	43.0	50.2	58.8	70.5	74.0	79.0	83.5	85.2	87.5	87.7	87.9	88.5	88.8	88.8	89.0
≥ 500	27.3	43.2	50.5	59.0	71.3	74.7	80.1	85.3	87.0	90.0	90.3	90.7	91.7	92.1	92.1	92.3
≥ 400	27.3	43.2	50.5	59.3	72.2	75.7	81.8	87.8	90.0	93.0	93.8	94.1	95.4	96.1	96.2	96.5
≥ 300	27.3	43.2	50.5	59.3	72.2	75.8	81.9	87.9	90.2	93.5	94.5	95.1	96.3	97.2	97.3	97.8
≥ 200	27.3	43.2	50.5	59.3	72.2	75.8	81.9	88.1	90.7	94.1	95.2	95.8	97.1	98.3	98.9	99.4
≥ 100	27.3	43.2	50.5	59.3	72.2	75.8	81.9	88.1	90.7	94.1	95.2	95.8	97.1	98.7	99.5	100.0
≥ 0	27.3	43.2	50.5	59.3	72.2	75.8	81.9	88.1	90.7	94.1	95.2	95.8	97.1	98.7	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 818

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
1122

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,77-81

MONTH  
JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	8.9	13.2	16.7	16.8	20.4	21.2	22.6	23.3	23.7	23.8	23.8	23.9	23.9	23.9	23.9	23.9
≥ 20000	12.7	16.7	19.8	20.6	24.4	25.3	26.7	27.5	28.0	28.1	28.1	28.2	28.2	28.2	28.2	28.2
≥ 18000	12.7	16.7	19.8	20.6	24.4	25.3	26.7	27.5	28.0	28.1	28.1	28.2	28.2	28.2	28.2	28.2
≥ 16000	12.7	16.7	19.8	20.6	24.4	25.3	26.7	27.5	28.0	28.1	28.1	28.2	28.2	28.2	28.2	28.2
≥ 14000	12.7	16.8	19.9	20.8	24.5	25.4	26.9	27.6	28.1	28.2	28.2	28.3	28.3	28.3	28.3	28.3
≥ 12000	12.5	17.6	20.8	21.6	25.4	26.4	27.8	28.6	29.1	29.2	29.2	29.3	29.3	29.3	29.3	29.3
≥ 10000	13.1	18.4	21.9	22.7	26.5	27.5	28.9	29.7	30.3	30.4	30.4	30.5	30.5	30.5	30.5	30.5
≥ 9000	14.0	19.4	23.0	23.9	27.7	28.7	30.2	30.9	31.5	31.6	31.6	31.7	31.7	31.7	31.7	31.7
≥ 8000	14.5	20.1	23.8	24.8	28.7	29.7	31.1	31.9	32.7	32.8	32.8	33.0	33.0	33.0	33.0	33.0
≥ 7000	14.8	20.5	24.3	25.6	29.5	30.5	32.0	32.7	33.6	33.7	33.7	33.8	33.8	33.8	33.8	33.8
≥ 6000	14.9	21.1	24.9	26.5	30.4	31.4	32.8	33.6	34.4	34.6	34.6	34.7	34.7	34.7	34.7	34.7
≥ 5000	16.5	22.8	26.6	28.2	32.1	33.1	34.6	35.4	36.4	36.5	36.5	36.8	36.8	36.8	36.8	36.8
≥ 4500	17.0	23.8	27.6	29.2	33.2	34.2	35.7	36.5	37.7	38.0	38.0	38.2	38.2	38.2	38.2	38.2
≥ 4000	18.2	25.8	29.8	31.5	35.9	36.9	38.3	39.2	40.4	40.8	40.8	41.0	41.0	41.0	41.0	41.0
≥ 3500	19.0	27.8	32.2	33.9	38.5	39.4	40.9	41.8	43.0	43.5	43.7	44.0	44.0	44.0	44.0	44.0
≥ 3000	21.7	32.1	37.0	39.2	44.0	45.3	47.0	48.1	49.3	49.8	50.1	50.3	50.3	50.3	50.3	50.3
≥ 2500	23.3	34.2	39.4	41.9	47.6	49.2	51.0	52.1	53.4	53.8	54.1	54.3	54.3	54.3	54.3	54.3
≥ 2000	26.4	39.4	45.5	49.1	56.9	58.6	60.7	62.0	63.9	63.9	64.1	64.3	64.3	64.3	64.3	64.3
≥ 1800	27.0	40.2	46.8	50.8	59.1	60.8	63.1	64.5	65.8	66.3	66.5	66.8	66.8	66.8	66.8	66.8
≥ 1500	28.9	43.0	49.8	54.5	63.2	65.6	68.9	70.6	71.9	72.4	72.6	73.0	73.0	73.0	73.0	73.0
≥ 1200	29.8	45.5	53.0	59.2	69.1	71.4	75.0	76.7	78.0	78.8	79.0	79.4	79.4	79.4	79.4	79.4
≥ 1000	30.8	46.9	54.5	61.3	71.6	74.1	77.8	79.5	81.1	81.9	82.3	82.7	82.7	82.7	82.7	82.7
≥ 900	30.9	47.4	54.9	61.9	72.3	74.8	78.8	80.5	82.1	83.3	83.6	84.0	84.0	84.0	84.0	84.0
≥ 800	31.4	48.1	55.8	63.0	73.5	76.2	80.5	82.4	84.5	86.1	86.6	86.9	86.9	86.9	86.9	86.9
≥ 700	31.4	48.5	56.2	63.4	74.7	77.7	82.2	84.6	86.9	88.6	89.1	89.7	89.7	89.9	89.9	89.9
≥ 600	31.4	48.5	56.8	64.1	75.6	78.6	83.4	86.0	88.5	90.5	91.0	91.6	91.6	91.8	91.8	91.8
≥ 500	31.4	48.5	56.8	64.2	76.2	79.4	84.4	87.3	90.0	92.4	93.0	93.7	93.7	94.1	94.1	94.1
≥ 400	31.4	48.5	56.8	64.2	76.8	80.1	85.1	88.5	91.3	94.1	94.7	95.4	95.5	96.1	96.1	96.1
≥ 300	31.4	48.5	56.8	64.2	76.9	80.2	85.3	88.9	91.7	94.6	95.4	96.2	96.3	97.6	97.6	97.6
≥ 200	31.4	48.5	56.8	64.2	76.9	80.2	85.5	89.0	92.1	95.1	95.8	96.7	96.9	99.3	99.5	99.8
≥ 100	31.4	48.5	56.8	64.2	76.9	80.2	85.5	89.0	92.1	95.1	95.8	96.7	97.1	99.4	99.6	100.0
≥ 0	31.4	48.5	56.8	64.2	76.9	80.2	85.5	89.0	92.1	95.1	95.8	96.7	97.1	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 819

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATC WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,77-81  
YEAR

JAN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING ≥ 20000	6.5	9.8	11.5	14.4	16.5	17.4	19.4	20.5	21.3	21.6	21.7	21.7	21.7	21.8	21.8	21.8
W 18000	8.7	11.8	13.9	17.2	19.7	20.7	22.8	24.0	24.7	25.0	25.1	25.3	25.3	25.4	25.4	25.4
W 16000	8.7	11.8	13.9	17.2	19.7	20.7	22.8	24.0	24.7	25.0	25.1	25.3	25.3	25.4	25.4	25.4
W 14000	8.7	11.8	13.9	17.2	19.7	20.7	22.8	24.0	24.7	25.0	25.1	25.3	25.3	25.4	25.4	25.4
W 12000	8.7	11.8	13.9	17.2	19.7	20.7	22.8	24.0	24.7	25.0	25.1	25.3	25.3	25.4	25.4	25.4
W 10000	8.9	13.8	16.1	19.4	22.3	23.3	25.4	26.6	27.3	27.6	27.7	27.9	27.9	28.0	28.0	28.0
W 9000	9.2	14.4	16.7	20.0	23.0	24.0	26.1	27.3	28.0	28.3	28.4	28.6	28.6	28.7	28.7	28.7
W 8000	9.9	15.5	17.8	21.6	24.9	25.9	28.0	29.5	30.2	30.5	30.6	30.7	30.7	30.9	30.9	30.9
W 7000	9.9	16.2	18.7	22.6	26.6	27.6	29.7	31.2	31.9	32.2	32.3	32.5	32.5	32.6	32.6	32.6
W 6000	10.2	17.2	19.7	23.7	27.9	28.9	31.0	32.5	33.5	33.8	33.9	34.1	34.1	34.2	34.2	34.2
W 5000	11.8	19.1	22.1	26.3	30.5	31.5	33.6	35.1	36.1	36.4	36.6	36.8	36.8	36.9	36.9	36.9
W 4500	12.2	20.0	23.1	27.4	31.8	33.0	35.2	36.6	37.6	37.9	38.2	38.4	38.4	38.5	38.5	38.5
W 4000	13.6	22.6	26.7	31.0	35.8	37.2	39.5	41.1	42.1	42.4	42.7	42.8	42.8	43.0	43.0	43.0
W 3500	14.5	23.7	27.3	32.6	37.8	39.2	41.5	43.1	44.1	44.8	45.1	45.3	45.3	45.4	45.4	45.4
W 3000	15.8	25.9	30.0	35.8	42.0	43.7	46.6	48.1	49.1	49.9	50.1	50.3	50.3	50.4	50.4	50.4
W 2500	17.1	28.4	33.6	39.7	47.3	49.1	52.4	54.0	55.0	55.7	56.0	56.2	56.2	56.3	56.3	56.3
W 2000	19.0	31.5	37.5	44.1	53.9	55.9	59.9	61.5	62.5	63.4	63.6	63.8	63.8	63.9	63.9	63.9
W 1800	19.3	32.8	39.1	45.7	55.5	57.6	61.6	63.4	64.4	65.2	65.5	65.7	65.7	65.8	65.8	65.8
W 1500	20.0	34.1	41.8	49.0	59.5	61.9	66.7	69.1	70.3	71.1	71.4	71.6	71.6	71.7	71.7	71.7
W 1200	20.7	35.9	45.3	53.4	64.4	66.8	72.1	74.9	76.1	77.0	77.3	77.4	77.4	77.6	77.6	77.6
W 1000	21.1	37.1	47.6	56.3	68.0	70.4	76.4	79.2	80.5	81.3	81.6	81.8	81.8	81.9	81.9	81.9
W 900	21.1	37.1	48.1	57.6	69.5	72.0	78.0	80.9	82.2	83.0	83.3	83.5	83.5	83.6	83.6	83.6
W 800	21.4	37.5	48.7	58.9	71.6	74.1	80.3	83.3	85.1	86.1	86.4	86.5	86.5	86.6	86.6	86.6
W 700	21.7	37.9	49.1	59.6	72.4	75.1	81.3	84.3	86.4	87.8	88.1	88.2	88.2	88.6	88.6	88.6
W 600	21.7	37.9	49.3	59.8	73.4	76.3	82.8	86.2	88.8	90.4	90.7	90.8	90.8	91.2	91.2	91.2
W 500	21.7	37.9	49.4	60.1	73.9	76.7	83.8	87.2	89.9	91.5	91.8	92.1	92.1	92.5	92.5	92.5
W 400	21.7	37.9	49.4	60.3	74.3	77.2	84.5	88.1	91.1	93.5	93.8	94.1	94.1	94.7	94.7	94.7
W 300	21.7	37.9	49.4	60.3	74.3	77.2	84.6	88.2	91.5	94.5	95.4	96.0	96.0	97.0	97.0	97.1
W 200	21.7	37.9	49.4	60.3	74.3	77.2	84.6	88.2	91.7	94.7	96.0	96.7	96.7	98.1	98.1	98.7
W 100	21.7	37.9	49.4	60.3	74.3	77.2	84.6	88.2	91.8	95.0	96.1	97.3	97.6	99.1	99.3	100.0
W 0	21.7	37.9	49.4	60.3	74.3	77.2	84.6	88.2	91.8	95.0	96.4	97.3	97.6	99.1	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 696

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
17120

STATION NAME  
SENBACH AB DL

YEARS  
65-68,77-81

MONTH  
JAN

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

7100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	7.5	12.6	14.7	15.7	18.6	19.3	22.2	24.1	24.4	24.8	24.8	25.1	25.3	25.5	25.5	25.6
≥ 20000	8.4	13.5	15.6	16.6	19.7	20.3	23.4	25.3	25.6	26.0	26.0	26.5	26.7	26.8	26.8	27.2
≥ 18000	8.4	13.5	15.6	16.6	19.7	20.3	23.4	25.3	25.6	26.0	26.0	26.5	26.7	26.8	26.8	27.2
≥ 16000	8.4	13.5	15.6	16.6	19.7	20.3	23.4	25.3	25.6	26.0	26.0	26.5	26.7	26.8	26.8	27.2
≥ 14000	8.4	13.5	15.6	16.6	19.7	20.3	23.4	25.3	25.6	26.0	26.0	26.5	26.7	26.8	26.8	27.2
≥ 12000	8.4	14.2	16.2	17.3	20.3	21.0	24.1	26.0	26.3	26.7	26.7	27.2	27.4	27.5	27.5	27.7
≥ 10000	8.4	14.4	16.4	17.6	20.9	21.5	24.6	26.5	26.8	27.2	27.2	27.7	27.9	28.0	28.0	28.2
≥ 9000	8.9	15.0	17.3	18.5	22.1	22.7	25.8	27.7	28.0	28.4	28.4	28.9	29.1	29.2	29.2	29.4
≥ 8000	9.2	15.2	18.5	20.2	24.3	25.1	28.2	30.1	30.4	30.8	30.8	31.3	31.5	31.6	31.6	31.8
≥ 7000	9.2	16.4	19.6	20.3	24.4	25.3	28.7	30.6	30.9	31.3	31.3	31.8	32.0	32.1	32.1	32.3
≥ 6000	9.2	16.9	19.8	21.5	25.6	26.5	30.1	32.1	32.5	32.8	32.8	33.3	33.5	33.7	33.7	33.8
≥ 5000	9.9	17.8	20.7	22.6	27.2	28.5	32.6	34.7	35.4	35.7	35.7	36.2	36.4	36.6	36.6	36.8
≥ 4500	10.3	18.6	21.5	23.6	28.4	29.9	34.0	36.4	37.1	37.4	37.4	37.9	38.1	38.3	38.3	38.5
≥ 4000	11.5	20.7	24.1	26.8	32.5	34.2	38.5	40.9	41.5	41.9	41.9	42.4	42.7	42.9	42.9	43.1
≥ 3500	12.5	22.6	26.3	29.2	35.0	36.8	41.2	43.6	44.3	45.0	45.0	45.5	46.0	46.2	46.2	46.3
≥ 3000	14.0	25.0	29.2	33.0	39.3	41.2	45.6	48.0	49.1	49.7	49.7	50.3	50.8	50.9	50.9	51.1
≥ 2500	15.6	27.9	33.0	37.6	44.6	46.5	51.5	53.8	54.9	55.6	55.6	56.1	56.6	56.8	56.8	56.9
≥ 2000	17.3	31.5	37.1	42.1	50.9	52.8	58.1	60.5	61.5	62.2	62.2	62.7	63.2	63.4	63.4	63.6
≥ 1800	17.4	32.1	37.8	42.9	51.8	54.0	59.8	62.2	63.2	63.9	63.9	64.4	65.0	65.1	65.1	65.3
≥ 1500	17.5	34.0	40.3	46.0	55.7	58.3	64.4	66.8	68.2	68.9	68.9	69.4	69.9	70.1	70.1	70.3
≥ 1200	18.5	37.1	43.9	50.4	61.5	64.1	70.8	73.2	74.5	75.4	75.4	75.9	76.4	76.6	76.6	76.8
≥ 1000	19.3	39.0	46.3	53.5	65.1	67.9	74.5	76.9	78.3	79.1	79.1	79.7	80.2	80.3	80.3	80.5
≥ 900	19.3	39.0	47.2	54.9	66.5	69.2	75.9	78.3	79.7	81.0	81.0	81.5	82.1	82.2	82.2	82.4
≥ 800	19.3	39.3	48.7	56.9	69.1	71.8	78.8	81.2	82.6	83.9	83.9	84.4	85.0	85.1	85.1	85.3
≥ 700	19.7	39.8	48.9	58.3	70.9	74.2	81.5	84.1	85.6	87.2	87.2	87.7	88.2	88.4	88.4	88.5
≥ 600	19.7	39.8	49.2	58.6	71.6	74.9	82.4	85.5	87.0	88.5	88.7	89.2	89.7	89.9	89.9	90.1
≥ 500	19.7	39.8	49.6	59.7	73.0	76.4	84.3	87.4	89.2	90.8	91.1	91.6	92.1	92.6	92.6	92.8
≥ 400	19.7	39.8	49.6	59.7	73.0	76.4	84.6	88.0	90.3	92.5	92.8	93.3	93.8	94.5	94.5	94.7
≥ 300	19.7	39.8	49.6	59.7	73.2	76.6	84.8	88.4	91.1	93.7	94.4	95.0	95.6	96.9	96.9	97.4
≥ 200	19.7	39.8	49.6	59.7	73.2	76.6	84.8	88.4	91.5	94.0	94.7	95.7	96.2	97.6	97.6	98.3
≥ 100	19.7	39.8	49.6	59.7	73.2	76.6	84.8	88.4	91.5	94.0	94.7	96.1	97.1	98.8	99.0	100.0
≥ 0	19.7	39.8	49.6	59.7	73.2	76.6	84.8	88.4	91.5	94.0	94.7	96.1	97.1	98.8	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 585



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
17120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,77-81

MONTH  
JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥4
NO CEILING	7.2	11.3	13.2	14.7	17.1	18.1	19.8	20.8	21.3	21.8	21.8	22.0	22.0	22.2	22.3	22.4
≥ 2000	8.5	12.7	14.9	16.4	19.0	20.1	21.8	22.9	23.4	23.9	23.9	24.1	24.2	24.4	24.4	24.6
≥ 1800	8.5	12.7	14.9	16.4	19.0	20.1	21.9	22.9	23.4	23.9	23.9	24.1	24.2	24.4	24.5	24.6
≥ 1600	8.5	12.7	14.9	16.5	19.0	20.1	21.9	22.9	23.4	23.9	23.9	24.1	24.2	24.4	24.5	24.6
≥ 1400	8.5	12.8	15.0	16.6	19.2	20.3	22.0	23.1	23.6	24.1	24.1	24.3	24.4	24.6	24.6	24.8
≥ 1200	8.8	13.3	15.7	17.2	19.8	21.0	22.7	23.8	24.3	24.8	24.8	25.0	25.1	25.3	25.3	25.5
≥ 1000	9.1	14.0	16.4	18.1	20.9	22.0	23.8	24.8	25.4	25.9	25.9	26.1	26.2	26.4	26.4	26.6
≥ 900	9.7	14.8	17.3	18.9	21.9	23.0	24.9	26.0	26.5	27.0	27.0	27.2	27.3	27.5	27.6	27.7
≥ 800	10.2	16.0	18.5	20.4	23.6	24.9	26.9	28.0	28.5	29.0	29.1	29.3	29.4	29.6	29.6	29.8
≥ 700	10.5	16.5	19.2	21.3	24.8	26.1	28.1	29.3	29.8	30.4	30.4	30.6	30.7	30.9	31.0	31.2
≥ 600	10.7	17.3	20.2	22.4	26.0	27.3	29.5	30.7	31.3	31.9	31.9	32.1	32.2	32.4	32.5	32.7
≥ 500	11.6	18.5	21.5	23.9	27.6	29.0	31.3	32.5	33.3	33.8	33.9	34.1	34.2	34.4	34.5	34.7
≥ 4500	12.1	19.4	22.4	24.9	28.7	30.4	32.7	34.0	34.8	35.4	35.5	35.7	35.8	36.0	36.1	36.3
≥ 4000	13.2	21.1	24.3	27.0	31.2	32.9	35.4	36.7	37.5	38.2	38.2	38.5	38.6	38.8	38.8	39.0
≥ 3500	14.1	22.7	26.1	29.1	33.6	35.3	37.9	39.3	40.1	40.9	41.0	41.2	41.4	41.6	41.6	41.8
≥ 3000	15.5	25.2	28.9	32.2	37.4	39.2	41.9	43.4	44.2	45.0	45.1	45.4	45.5	45.8	45.8	46.0
≥ 2500	16.8	27.6	31.7	35.3	41.4	43.3	46.3	47.8	48.7	49.5	49.6	49.8	50.0	50.2	50.3	50.5
≥ 2000	18.9	31.3	36.2	40.6	47.7	49.9	53.5	55.1	56.0	56.8	56.9	57.2	57.4	57.6	57.7	57.9
≥ 1800	19.5	32.3	37.5	42.1	49.4	51.6	55.5	57.2	58.0	58.9	59.0	59.3	59.5	59.7	59.8	60.0
≥ 1500	20.7	34.5	40.3	45.4	53.5	56.1	60.4	62.5	63.5	64.4	64.6	64.9	65.0	65.3	65.4	65.6
≥ 1200	21.6	36.9	43.4	49.5	58.7	61.5	66.4	68.7	69.7	70.7	71.0	71.3	71.5	71.8	71.9	72.1
≥ 1000	22.1	38.0	45.0	51.8	61.8	64.9	70.1	72.5	73.7	74.8	75.1	75.4	75.6	76.0	76.0	76.2
≥ 900	22.4	38.5	45.8	53.2	63.6	66.7	72.1	74.8	76.0	77.3	77.6	78.0	78.2	78.5	78.6	78.8
≥ 800	22.7	39.1	46.8	54.9	65.9	69.2	74.8	77.6	79.2	80.7	81.1	81.4	81.7	82.0	82.1	82.3
≥ 700	22.8	39.6	47.6	56.2	67.9	71.5	77.4	80.5	82.1	83.9	84.3	84.7	84.9	85.3	85.4	85.6
≥ 600	22.9	39.8	48.1	57.0	69.1	72.9	79.3	82.8	84.6	86.5	87.0	87.4	87.7	88.1	88.2	88.5
≥ 500	22.9	39.9	48.3	57.4	70.0	73.9	80.8	84.7	86.6	89.0	89.5	90.0	90.4	90.9	91.0	91.3
≥ 400	22.9	40.0	48.4	57.6	70.6	74.6	82.0	86.3	88.6	91.4	92.1	92.6	93.1	93.7	93.9	94.2
≥ 300	22.9	40.0	48.4	57.6	70.7	74.8	82.3	87.0	89.4	92.7	93.8	94.5	95.0	96.0	96.2	96.8
≥ 200	22.9	40.0	48.4	57.6	70.7	74.8	82.4	87.3	90.0	93.4	94.7	95.6	96.3	97.8	98.2	99.0
≥ 100	22.9	40.0	48.4	57.6	70.7	74.8	82.4	87.3	90.0	93.5	94.8	95.9	96.7	98.4	98.9	100.0
≥ 0	22.9	40.0	48.4	57.6	70.7	74.8	82.4	87.3	90.0	93.5	94.8	95.9	96.7	98.4	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 5284

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 120 SEMBACH AB DL

YEARS 65-68,77,79-80

FEF

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH 0000-0000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/10	≥1/4	≥0
NO CEILING	8.2	19.6	21.0	22.7	24.4	25.9	26.7	26.7	27.0	27.6	27.6	27.6	27.8	27.8	28.1	28.1
≥ 20000	8.8	21.2	22.4	24.7	26.4	27.8	28.7	28.7	29.0	29.5	29.5	29.5	29.8	29.8	30.1	30.1
IN 18000	8.8	20.2	22.4	24.7	26.4	27.8	28.7	28.7	29.0	29.5	29.5	29.5	29.8	29.8	30.1	30.1
IN 6000	9.1	20.5	22.7	25.0	26.7	28.1	29.0	29.0	29.3	29.8	29.8	29.8	30.1	30.1	30.4	30.4
IN 14000	9.4	23.7	23.0	25.3	27.0	28.4	29.3	29.3	29.5	30.1	30.1	30.1	30.4	30.4	30.7	30.7
IN 12000	10.2	21.9	24.1	26.4	28.1	29.5	30.4	30.4	30.7	31.3	31.3	31.3	31.5	31.5	31.8	31.8
IN 10000	10.8	22.7	25.0	27.8	29.5	31.3	32.1	32.1	32.4	33.0	33.0	33.0	33.2	33.2	33.5	33.5
IN 9000	11.4	23.9	26.1	29.0	30.7	32.4	33.2	33.2	33.5	34.1	34.1	34.1	34.4	34.4	34.7	34.7
IN 8000	11.4	25.9	28.1	31.5	33.2	34.9	35.8	35.8	36.1	36.6	36.6	36.6	36.9	36.9	37.2	37.2
IN 7000	12.8	28.1	30.7	35.2	37.8	39.5	40.3	40.3	40.6	41.2	41.2	41.2	41.5	41.5	41.8	41.8
IN 6000	13.6	30.7	33.8	38.9	41.8	43.5	45.2	45.2	45.5	46.0	46.0	46.0	46.3	46.3	46.6	46.6
IN 5000	14.2	32.1	35.2	40.3	43.5	45.2	46.9	46.9	47.2	47.7	47.7	47.7	48.0	48.0	48.3	48.3
IN 4500	15.1	34.4	37.5	42.9	46.3	48.0	50.0	50.3	50.6	51.4	51.4	51.4	51.7	51.7	52.0	52.0
IN 4000	15.6	35.2	38.4	44.0	47.7	49.7	52.0	52.3	52.6	53.4	53.4	53.4	53.7	54.0	54.3	54.3
IN 3500	17.1	37.2	40.6	46.6	51.4	54.3	56.5	56.8	57.1	58.0	58.0	58.0	58.2	58.5	58.8	58.8
IN 3000	17.6	38.6	42.0	49.1	54.3	57.1	59.4	59.9	60.2	61.1	61.1	61.1	61.4	61.6	61.9	61.9
IN 2500	19.0	41.5	45.7	53.1	59.1	61.9	64.2	64.8	65.1	65.9	65.9	65.9	66.2	66.5	66.8	66.8
IN 2000	19.1	42.3	47.2	54.5	61.4	64.2	66.5	67.0	67.3	68.2	68.2	68.2	68.5	68.8	69.0	69.0
IN 1800	19.6	42.9	47.7	55.1	61.9	65.1	67.3	67.9	68.2	69.0	69.0	69.0	69.3	69.6	69.9	69.9
IN 1500	20.5	44.3	50.9	58.2	65.9	69.3	71.6	72.2	72.4	73.3	73.3	73.3	73.6	73.9	74.1	74.1
IN 1200	21.6	46.0	54.8	63.4	71.3	75.0	77.8	79.0	79.3	80.1	80.1	80.1	80.4	80.7	81.0	81.3
IN 1000	22.4	47.7	57.1	65.9	73.9	77.8	81.3	82.4	82.7	83.5	83.5	83.5	83.8	84.1	84.4	84.7
IN 900	22.4	48.6	58.2	67.0	75.9	80.1	83.5	84.7	84.9	85.8	85.8	85.8	86.1	86.4	86.6	86.9
IN 800	23.1	49.7	59.7	68.5	77.8	82.1	85.5	87.2	87.5	88.4	88.4	88.4	88.6	88.9	89.2	89.5
IN 700	23.1	50.0	60.9	69.3	78.7	83.0	87.5	89.2	89.5	90.3	90.6	90.6	90.9	91.2	91.5	91.8
IN 600	23.1	50.0	60.9	69.3	78.7	83.0	87.8	89.5	89.8	91.2	91.5	91.5	91.8	92.0	92.3	92.6
IN 500	23.1	50.0	61.6	70.5	79.8	84.1	89.2	91.2	92.0	93.8	94.0	94.0	94.3	94.6	94.9	95.2
IN 400	23.1	50.0	61.6	70.7	80.1	84.7	90.9	92.9	93.8	95.7	96.0	96.0	96.3	96.6	96.9	97.2
IN 300	23.1	50.0	61.6	70.7	80.1	84.7	91.5	93.8	94.9	97.2	97.4	97.4	97.7	98.0	98.3	98.6
IN 200	23.1	50.0	61.6	70.7	80.1	84.7	91.5	93.8	94.9	97.4	98.0	98.0	98.3	98.6	98.9	100.0
IN 100	23.1	50.0	61.6	70.7	80.1	84.7	91.5	93.8	94.9	97.4	98.0	98.0	98.3	98.6	98.9	100.0
IN 0	23.1	50.0	61.6	70.7	80.1	84.7	91.5	93.8	94.9	97.4	98.0	98.0	98.3	98.6	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 352

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

127 SEMBACH AB DL

65-68,76-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥3/16	¾	≥0
NO CEILING	9.4	16.1	18.3	19.9	20.8	23.5	25.5	26.0	26.6	27.1	27.1	27.1	27.3	27.3	27.3	27.5
≥ 20000	9.8	16.6	19.2	20.8	21.7	24.4	26.4	27.1	27.7	28.2	28.2	28.2	28.4	28.4	28.4	28.6
≥ 18000	9.8	16.6	19.2	20.8	21.7	24.4	26.4	27.1	27.7	28.2	28.2	28.2	28.4	28.4	28.4	28.6
≥ 16000	9.8	16.6	19.2	20.8	21.7	24.4	26.4	27.1	27.7	28.2	28.2	28.2	28.4	28.4	28.4	28.6
≥ 14000	9.8	16.6	19.5	21.0	21.9	24.6	26.6	27.3	28.0	28.4	28.4	28.4	28.6	28.6	28.6	28.9
≥ 12000	10.5	17.2	20.1	21.7	22.6	25.3	27.3	28.0	28.6	29.1	29.1	29.1	29.3	29.3	29.3	29.5
≥ 10000	10.7	17.9	20.8	22.6	23.5	26.2	28.2	28.9	29.5	30.0	30.0	30.0	30.2	30.2	30.2	30.4
≥ 9000	10.7	18.1	21.0	22.8	23.7	26.4	28.4	29.1	30.0	30.4	30.4	30.4	30.6	30.6	30.6	30.9
≥ 8000	12.5	21.3	24.2	26.0	27.1	29.8	31.8	32.4	33.3	33.8	33.8	33.8	34.0	34.0	34.0	34.2
≥ 7000	13.0	22.4	25.3	28.6	30.0	33.3	35.3	36.0	36.9	37.6	37.6	37.6	37.8	37.8	37.8	38.0
≥ 6000	13.0	23.5	26.4	30.2	31.8	35.3	37.4	38.0	38.9	39.6	39.6	39.6	39.8	39.8	39.8	40.0
≥ 5000	13.6	24.8	27.7	31.5	33.1	36.7	38.7	39.4	40.3	40.9	40.9	40.9	41.2	41.4	41.4	41.6
≥ 4500	15.2	27.5	30.4	34.2	36.0	39.6	41.6	42.5	43.6	44.3	44.5	44.7	45.0	45.2	45.2	45.4
≥ 4000	15.9	29.8	32.7	36.7	38.7	42.3	44.5	45.4	46.8	47.4	47.7	47.9	48.1	48.3	48.3	48.5
≥ 3500	17.0	32.2	35.1	40.7	42.7	47.2	50.3	51.2	52.6	53.2	53.5	53.7	53.9	54.1	54.1	54.4
≥ 3000	18.1	34.7	37.8	44.1	46.8	51.2	54.4	55.5	56.8	57.7	57.9	58.2	58.4	58.6	58.6	58.8
≥ 2500	20.1	37.1	40.5	47.4	50.8	55.3	59.1	60.2	61.5	62.4	62.6	62.9	63.1	63.3	63.3	63.5
≥ 2000	23.3	41.4	45.4	53.0	56.6	61.1	64.9	66.0	67.3	68.2	68.5	68.7	68.9	69.1	69.1	69.4
≥ 1800	23.9	42.5	46.8	54.4	58.6	63.3	67.3	68.5	69.8	70.7	70.9	71.1	71.4	71.6	71.6	71.8
≥ 1600	23.9	43.0	47.7	56.2	61.3	66.0	70.2	71.4	72.7	73.6	73.8	74.0	74.3	74.5	74.5	74.7
≥ 1400	24.6	44.3	49.7	59.1	64.7	69.4	74.3	76.1	77.6	78.5	78.7	79.0	79.2	79.4	79.4	79.6
≥ 1200	25.7	45.9	51.5	61.5	67.3	72.3	77.2	79.0	80.5	81.4	81.7	81.9	82.1	82.3	82.3	82.6
≥ 1000	26.2	47.0	52.6	62.6	68.7	73.6	78.7	81.0	82.6	83.7	83.9	84.1	84.3	84.6	84.6	84.8
≥ 900	27.1	48.8	54.4	64.4	71.1	76.1	81.2	83.4	85.2	86.4	86.8	87.0	87.2	87.5	87.5	87.7
≥ 800	27.1	49.0	54.8	65.1	71.8	77.0	82.3	84.6	86.4	87.9	88.4	88.6	88.8	89.0	89.0	89.3
≥ 700	27.1	49.2	55.0	65.5	72.5	77.9	83.2	85.7	87.7	89.3	89.9	90.4	90.8	91.1	91.1	91.3
≥ 600	27.1	49.2	55.0	66.0	73.6	79.9	86.1	89.3	91.7	93.3	94.2	94.6	95.1	95.3	95.3	95.5
≥ 500	27.1	49.2	55.0	66.0	73.6	79.9	86.1	89.3	91.7	93.3	94.2	94.6	95.1	95.3	95.3	95.5
≥ 400	27.1	49.2	55.0	66.0	73.6	79.9	86.1	89.3	91.7	93.3	94.2	94.6	95.1	95.3	95.3	95.5
≥ 300	27.1	49.2	55.0	66.0	73.6	79.9	86.1	89.3	91.7	93.3	94.2	94.6	95.1	95.3	95.3	95.5
≥ 200	27.1	49.2	55.0	66.0	73.6	79.9	86.1	89.3	91.7	93.3	94.2	94.6	95.1	95.3	95.3	95.5
≥ 100	27.1	49.2	55.0	66.0	73.6	79.9	86.1	89.3	91.7	93.3	94.2	94.6	95.1	95.3	95.3	95.5
≥ 0	27.1	49.2	55.0	66.0	73.6	79.9	86.1	89.3	91.7	93.3	94.2	94.6	95.1	95.3	95.3	95.5

TOTAL NUMBER OF OBSERVATIONS 447

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 120 SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

FE4  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

6.7-30.0  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2 1/2	≥2	≥1 1/2	≥1 1/4	≥1	≥3/4	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32
NO CEILING	7.8	11.7	13.5	14.6	16.9	17.7	19.5	22.0	23.1	23.6	24.0	24.4	25.0	25.4	25.6	26.0
≥20000	8.4	12.6	14.9	16.3	18.5	19.3	21.1	23.9	25.0	25.6	26.0	26.4	26.9	27.3	27.5	28.2
≥18000	8.4	12.6	14.9	16.3	18.5	19.3	21.1	23.9	25.0	25.6	26.0	26.4	26.9	27.3	27.5	28.2
≥16000	8.4	12.6	14.9	16.3	18.5	19.3	21.1	23.9	25.0	25.6	26.0	26.4	26.9	27.3	27.5	28.2
≥14000	8.6	12.7	15.1	16.4	18.6	19.5	21.3	24.0	25.1	25.7	26.1	26.5	27.1	27.5	27.6	28.3
≥12000	8.8	13.0	15.3	16.7	19.1	19.9	21.7	24.6	25.7	26.2	26.7	27.1	27.6	28.0	28.2	28.9
≥10000	9.4	13.7	16.3	17.7	20.0	20.9	22.8	25.8	26.9	27.5	27.9	28.3	28.9	29.3	29.4	30.1
≥9000	9.5	13.8	16.4	17.8	20.2	21.3	23.3	26.4	27.5	28.0	28.5	28.9	29.4	29.6	30.0	30.7
≥8000	9.8	14.4	17.0	18.5	20.9	22.1	24.2	27.2	28.3	29.0	29.6	30.0	30.5	31.2	31.4	32.2
≥7000	9.9	14.8	17.5	19.1	21.5	23.2	25.4	28.6	29.7	30.5	31.1	31.5	32.0	32.7	32.9	33.7
≥6000	10.1	16.7	19.6	21.3	23.8	25.4	27.6	30.8	31.9	32.9	33.4	33.8	34.4	35.1	35.2	36.2
≥5000	10.2	17.3	20.2	21.8	24.3	26.0	28.2	31.4	32.5	33.4	34.0	34.4	34.9	35.6	35.8	36.7
≥4500	10.8	18.2	21.1	22.9	25.4	27.1	29.4	32.7	33.8	34.8	35.4	35.8	36.3	37.0	37.2	38.1
≥4000	11.6	19.9	22.9	25.1	28.3	30.0	32.5	36.0	37.2	38.3	38.8	39.2	39.8	40.5	40.8	41.6
≥3500	12.7	22.1	25.3	27.8	31.2	32.9	35.8	39.8	40.9	42.4	43.0	43.4	43.9	44.8	44.9	45.9
≥3000	13.4	23.1	26.9	29.8	33.6	35.4	38.5	42.5	43.6	45.6	46.1	46.5	47.1	48.1	48.2	49.2
≥2500	17.1	28.3	32.5	35.9	39.8	41.6	45.3	49.4	50.7	52.6	53.2	53.6	54.1	55.2	55.4	56.4
≥2000	19.1	31.1	35.6	39.4	43.8	45.6	49.4	54.0	55.4	57.3	57.9	58.3	58.8	59.9	60.1	61.0
≥1800	19.5	31.5	36.3	40.1	44.6	46.4	50.4	55.1	56.5	58.4	59.0	59.4	59.9	61.0	61.2	62.2
≥1500	20.5	34.0	39.0	43.2	48.8	50.8	55.1	60.4	61.9	63.8	64.4	64.8	65.3	66.4	66.6	67.5
≥1200	22.7	36.0	42.0	47.1	54.3	56.5	61.3	67.3	69.2	71.5	72.1	72.5	73.1	74.2	74.3	75.3
≥1000	22.8	36.3	42.7	48.5	56.5	59.0	64.0	70.0	72.0	74.3	74.9	75.3	75.8	76.9	77.1	78.1
≥900	22.9	36.5	43.1	49.0	57.3	59.9	65.5	71.5	73.5	76.1	76.7	77.1	77.6	78.7	78.9	79.8
≥800	23.1	37.4	43.9	50.4	59.8	62.4	68.4	74.7	77.1	79.8	80.4	80.8	81.4	82.5	82.6	83.6
≥700	23.5	37.7	44.3	51.1	60.5	63.4	69.6	76.1	78.9	81.8	82.3	82.9	83.4	84.5	84.7	85.6
≥600	23.8	38.0	44.6	51.8	61.7	64.8	71.4	78.0	81.2	84.4	85.1	85.6	86.2	87.3	87.4	88.4
≥500	23.9	38.0	44.9	52.1	63.3	67.0	73.9	80.5	83.8	87.6	88.3	89.0	89.8	90.9	91.0	92.0
≥400	23.8	38.0	44.9	52.1	63.4	67.3	74.4	81.1	84.4	88.4	89.2	89.9	90.9	92.0	92.4	93.4
≥300	23.8	38.0	44.9	52.1	63.5	67.4	75.1	81.8	85.1	89.2	90.1	90.7	91.7	92.6	93.2	94.2
≥200	23.8	38.0	44.9	52.1	63.5	67.4	75.1	82.0	85.6	90.1	91.2	92.1	93.8	95.7	96.1	97.7
≥100	23.8	38.0	44.9	52.1	63.5	67.4	75.1	82.0	85.6	90.1	91.2	92.1	93.8	95.7	96.3	98.0
0	23.8	38.0	44.9	52.1	63.5	67.4	75.1	82.0	85.6	90.1	91.2	92.1	93.8	95.7	96.3	98.0

TOTAL NUMBER OF OBSERVATIONS 724

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
1130

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,76-81

MONTH  
FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	7.8	11.1	11.9	12.9	16.5	17.2	18.0	20.0	20.7	21.0	21.3	21.4	21.4	21.6	21.8	22.5
≥ 20000	9.7	13.1	14.1	15.0	18.9	19.6	20.8	22.7	23.4	23.9	24.2	24.3	24.3	24.5	24.6	25.4
≥ 18000	9.7	13.1	14.2	15.1	19.0	19.7	20.9	22.8	23.6	24.0	24.3	24.4	24.4	24.6	24.8	25.5
≥ 16000	9.7	13.1	14.2	15.1	19.0	19.7	20.9	22.8	23.6	24.0	24.3	24.4	24.4	24.6	24.8	25.5
≥ 14000	10.1	13.5	14.5	15.6	19.5	20.2	21.4	23.3	24.0	24.5	24.8	24.9	24.9	25.1	25.2	26.0
≥ 12000	10.9	14.4	15.5	16.6	20.4	21.2	22.4	24.4	25.1	25.6	25.8	26.0	26.0	26.2	26.3	27.0
≥ 10000	11.9	16.0	17.1	18.1	22.0	22.7	24.0	26.4	27.2	27.8	28.0	28.1	28.1	28.5	28.6	29.4
≥ 9000	12.9	16.9	18.0	19.1	23.0	23.7	25.0	27.4	28.1	28.7	29.2	29.3	29.3	29.8	29.8	30.8
≥ 8000	13.7	18.4	19.7	21.0	24.9	25.6	26.9	29.3	30.3	31.0	31.5	31.9	32.2	32.8	32.9	33.8
≥ 7000	14.3	19.4	20.7	22.0	26.2	26.9	28.2	30.9	32.0	32.8	33.3	33.7	34.0	34.6	34.7	35.6
≥ 6000	15.1	20.9	22.4	23.9	28.2	29.1	30.6	33.5	34.6	35.5	35.9	36.3	36.7	37.3	37.4	38.3
≥ 5000	16.7	21.9	23.4	25.1	30.2	31.0	32.6	35.5	36.5	37.4	37.9	38.2	38.6	39.2	39.3	40.3
≥ 4500	16.8	23.1	24.6	26.3	31.5	32.3	34.0	37.0	38.2	39.1	39.5	39.9	40.4	41.0	41.1	42.1
≥ 4000	17.4	23.7	25.5	27.2	32.6	33.7	35.7	38.8	40.0	40.9	41.3	41.8	42.3	42.9	43.0	44.0
≥ 3500	18.8	25.1	27.0	29.0	34.7	35.8	38.0	41.3	42.7	43.6	44.1	44.6	45.1	45.7	45.8	46.8
≥ 3000	20.6	27.3	29.6	31.5	37.6	38.7	41.0	44.6	45.9	46.9	47.5	48.1	48.6	49.4	49.5	50.5
≥ 2500	22.6	30.0	32.5	34.6	41.3	42.4	44.8	48.6	49.9	51.0	51.6	52.2	52.6	53.5	53.6	54.6
≥ 2000	25.0	33.3	35.8	38.3	45.8	47.0	49.8	53.6	55.2	56.4	57.0	57.6	58.1	58.9	59.0	60.0
≥ 1800	25.7	34.3	36.9	39.5	47.0	48.3	51.3	55.3	56.9	58.1	58.7	59.3	59.7	60.6	60.7	61.7
≥ 1500	27.8	37.1	40.1	42.9	50.8	52.3	55.9	60.1	61.8	63.1	63.8	64.4	64.9	65.7	65.9	66.8
≥ 1200	28.4	38.6	42.3	45.7	55.9	57.6	61.4	67.2	69.0	70.7	71.4	72.0	72.5	73.3	73.4	74.4
≥ 1000	29.1	39.8	44.2	47.7	58.4	60.5	65.0	71.5	73.6	75.5	76.2	76.8	77.3	78.1	78.2	79.2
≥ 900	29.6	40.6	45.0	48.9	59.9	62.0	66.7	73.6	75.7	77.9	78.6	79.2	79.7	80.5	80.6	81.6
≥ 800	29.8	41.6	46.5	50.7	62.0	64.4	69.4	76.3	79.1	81.3	82.3	82.9	83.4	84.3	84.4	85.3
≥ 700	30.0	41.8	47.0	51.2	62.6	65.0	70.4	77.8	80.5	83.1	84.1	84.7	85.2	86.1	86.2	87.1
≥ 600	30.0	41.8	47.2	51.2	62.9	66.0	72.1	80.3	83.4	86.2	87.3	87.9	88.5	89.3	89.4	90.4
≥ 500	30.0	41.8	47.0	51.2	63.3	66.6	72.8	81.1	84.4	87.3	88.7	89.3	90.0	90.9	91.0	91.9
≥ 400	30.0	41.8	47.0	51.2	63.3	66.8	73.3	81.7	85.1	88.3	89.9	90.7	91.7	92.8	92.9	93.9
≥ 300	30.0	41.8	47.0	51.2	63.3	66.9	73.6	82.1	85.7	89.3	91.2	92.3	93.4	94.6	94.7	95.8
≥ 200	30.0	41.8	47.0	51.2	63.3	66.9	73.6	82.1	85.7	89.5	91.5	92.7	93.9	96.5	96.8	97.7
≥ 100	30.0	41.8	47.0	51.2	63.3	66.9	73.6	82.1	85.7	89.5	91.5	92.7	93.9	96.5	96.8	97.7
≥ 0	30.0	41.8	47.0	51.2	63.3	66.9	73.6	82.1	85.7	89.5	91.5	92.7	93.9	96.5	96.8	97.7

TOTAL NUMBER OF OBSERVATIONS 832

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
1200

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,76-81

MONTH  
FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	9.5	12.6	14.5	17.2	19.3	19.8	21.0	21.7	21.9	22.7	22.7	22.7	22.7	22.7	22.9	22.9
≥ 20000	11.5	14.6	16.6	19.2	21.5	22.2	23.9	24.6	24.7	25.6	25.6	25.6	25.6	25.6	25.8	25.8
≥ 18000	12.1	15.4	17.4	20.0	22.3	23.0	24.7	25.6	25.7	26.7	26.7	26.7	26.7	26.7	26.9	26.9
≥ 16000	12.1	15.4	17.4	20.0	22.3	23.0	24.7	25.6	25.7	26.7	26.7	26.7	26.7	26.7	26.9	26.9
≥ 14000	12.7	16.0	18.0	20.6	22.9	23.6	25.3	26.2	26.3	27.3	27.3	27.3	27.3	27.3	27.5	27.5
≥ 12000	13.6	17.0	19.1	21.7	24.0	24.7	26.4	27.3	27.4	28.3	28.3	28.3	28.3	28.3	28.6	28.6
≥ 10000	14.9	18.4	20.4	23.2	25.6	26.3	28.0	28.9	29.1	30.0	30.0	30.0	30.0	30.0	30.3	30.3
≥ 9000	15.6	19.2	21.2	24.1	26.5	27.3	28.9	29.9	30.0	31.0	31.0	31.0	31.0	31.0	31.2	31.2
≥ 8000	17.0	21.0	23.2	26.4	29.1	29.8	31.5	32.5	32.7	33.7	33.7	33.7	33.7	33.7	34.1	34.1
≥ 7000	18.0	22.3	24.8	28.1	31.0	31.7	33.4	34.5	34.6	35.7	35.7	35.7	35.7	35.7	36.0	36.0
≥ 6000	19.2	24.0	26.5	29.8	32.7	33.4	35.3	36.5	36.6	37.7	37.7	37.7	37.7	37.7	38.1	38.1
≥ 5000	20.9	25.9	28.6	31.9	35.7	36.4	38.5	39.9	40.1	41.2	41.2	41.2	41.2	41.2	41.5	41.5
≥ 4500	21.8	27.0	29.7	33.1	36.9	37.6	40.0	41.3	41.5	42.6	42.6	42.6	42.6	42.6	43.0	43.0
≥ 4000	24.1	29.7	32.5	36.3	40.2	40.9	43.5	44.8	45.0	46.2	46.2	46.2	46.2	46.2	46.6	46.6
≥ 3500	26.1	32.2	35.1	38.8	43.1	43.8	46.3	47.7	48.0	49.2	49.2	49.2	49.2	49.2	49.6	49.6
≥ 3000	27.5	34.8	37.8	41.7	46.2	47.1	49.7	51.4	51.7	52.9	52.9	52.9	52.9	52.9	53.4	53.4
≥ 2500	29.9	38.2	41.2	45.1	50.3	51.5	54.4	56.2	56.5	57.7	57.7	57.7	57.7	57.7	58.2	58.2
≥ 2000	33.4	43.1	46.3	50.8	56.4	57.7	60.9	63.0	63.4	64.6	64.6	64.6	64.6	64.6	65.1	65.1
≥ 1800	33.9	43.9	47.4	52.1	58.2	59.7	62.8	64.9	65.3	66.5	66.5	66.5	66.5	66.5	67.0	67.0
≥ 1500	34.8	45.6	49.9	55.3	62.1	63.7	67.2	69.6	70.0	71.4	71.4	71.4	71.4	71.4	71.9	71.9
≥ 1200	37.5	48.6	53.7	60.1	68.3	70.2	74.5	77.7	78.3	80.0	80.0	80.0	80.0	80.0	80.4	80.4
≥ 1000	37.6	48.9	54.3	61.2	70.2	72.7	77.8	81.4	82.1	83.9	83.9	83.9	83.9	83.9	84.4	84.4
≥ 900	37.6	48.9	54.3	61.6	70.9	73.7	79.1	83.0	83.8	85.6	85.6	85.6	85.6	85.6	86.1	86.1
≥ 800	37.6	49.7	55.3	63.0	72.9	75.6	81.2	85.1	86.1	88.0	88.0	88.1	88.1	88.1	88.6	88.6
≥ 700	38.2	50.1	55.9	63.6	74.1	76.8	82.6	86.6	87.5	89.8	89.8	90.0	90.0	90.0	90.5	90.5
≥ 600	38.2	50.3	56.2	63.9	74.5	77.7	83.9	88.5	89.4	92.3	92.3	92.6	92.6	92.6	93.0	93.0
≥ 500	38.2	50.3	56.3	64.1	75.2	78.4	84.8	89.3	90.5	93.9	93.9	94.1	94.1	94.1	94.7	94.7
≥ 400	38.2	50.4	56.4	64.2	75.5	79.0	85.8	91.0	92.6	96.3	96.5	96.9	97.0	97.0	97.6	97.6
≥ 300	38.2	50.4	56.4	64.2	75.5	79.0	86.0	91.1	93.2	97.1	97.5	97.8	98.1	98.1	99.0	99.3
≥ 200	38.2	50.4	56.4	64.2	75.5	79.0	86.0	91.1	93.2	97.1	97.6	98.0	98.2	98.2	99.4	99.6
≥ 100	38.2	50.4	56.4	64.2	75.5	79.0	86.0	91.1	93.2	97.1	97.6	98.0	98.2	98.2	99.4	99.8
≥ 0	38.2	50.4	56.4	64.2	75.5	79.0	86.0	91.1	93.2	97.1	97.6	98.0	98.2	98.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 833

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
17120

STATION NAME  
SEMBACH AB DL

65-68,76-81

YEARS

MONTH  
FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/10	≥1/8	≥1/16
NO CEILING	12.4	17.5	19.9	22.7	24.6	25.5	27.0	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 20000	15.4	20.5	23.3	26.0	28.6	29.8	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 18000	16.4	21.4	24.2	27.0	29.8	31.0	33.4	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥ 16000	16.5	21.6	24.3	27.1	29.9	31.1	33.5	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 14000	16.9	21.9	24.7	27.5	30.2	31.4	33.9	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 12000	17.5	22.5	25.3	28.1	30.8	32.0	34.5	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
≥ 10000	18.6	24.1	26.9	29.6	32.4	33.6	36.0	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 9000	19.4	25.1	27.8	30.6	33.4	34.6	37.0	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
≥ 8000	21.9	27.7	30.5	33.4	36.4	37.6	40.1	40.2	40.2	40.2	40.5	40.5	40.5	40.5	40.5	40.5
≥ 7000	23.3	30.0	32.8	35.8	38.8	40.1	42.7	42.9	42.9	43.0	43.3	43.3	43.3	43.3	43.3	43.3
≥ 6000	24.9	31.9	34.7	37.7	40.8	42.2	44.8	45.1	45.1	45.2	45.4	45.4	45.4	45.4	45.4	45.4
≥ 5000	26.7	34.2	37.3	40.5	43.7	45.2	47.8	48.2	48.2	48.3	48.6	48.6	48.6	48.6	48.6	48.6
≥ 4500	27.7	35.8	39.2	42.3	45.5	47.0	49.6	50.0	50.0	50.1	50.4	50.4	50.4	50.4	50.4	50.4
≥ 4000	29.8	38.1	41.8	45.2	48.4	49.9	52.9	53.3	53.4	53.5	53.7	53.7	53.7	53.7	53.7	53.7
≥ 3500	31.9	40.7	44.6	48.3	51.8	53.3	56.3	56.6	56.7	56.9	57.1	57.1	57.1	57.1	57.1	57.1
≥ 3000	34.2	44.0	48.0	51.7	55.7	57.1	60.4	60.8	61.0	61.1	61.3	61.3	61.3	61.3	61.3	61.3
≥ 2500	35.5	46.6	51.4	55.4	59.8	61.3	64.8	65.3	65.4	65.7	65.9	65.9	65.9	65.9	65.9	65.9
≥ 2000	38.1	49.6	55.2	59.5	64.5	66.0	69.5	70.2	70.4	70.6	70.8	70.8	70.8	70.8	70.8	70.8
≥ 1800	38.4	50.4	55.9	60.4	65.5	67.2	70.8	71.6	71.7	71.9	72.2	72.2	72.2	72.2	72.2	72.2
≥ 1500	39.5	52.0	58.0	62.4	68.1	70.0	74.2	75.4	75.8	76.0	76.3	76.3	76.3	76.3	76.3	76.3
≥ 1200	41.4	54.7	61.3	66.3	73.4	75.3	79.9	82.0	82.5	82.9	83.1	83.4	83.4	83.4	83.4	83.4
≥ 1000	42.7	55.7	63.0	68.3	76.4	78.8	83.5	86.0	86.7	87.2	87.5	87.7	87.7	87.7	87.7	87.7
≥ 900	42.7	55.8	63.3	68.6	77.3	80.0	85.1	87.6	88.3	89.0	89.4	89.8	89.8	89.8	89.8	89.8
≥ 800	42.7	56.4	63.9	69.3	78.8	81.4	86.5	89.0	89.8	90.5	90.8	91.2	91.2	91.2	91.2	91.2
≥ 700	42.5	56.5	64.0	69.6	79.8	82.7	87.8	90.5	91.2	91.9	92.4	92.8	92.8	92.8	92.8	92.8
≥ 600	42.5	56.5	64.1	69.8	80.0	83.0	88.2	91.0	91.7	92.9	93.4	93.9	93.9	93.9	93.9	93.9
≥ 500	42.7	56.6	64.3	70.0	80.6	83.6	88.9	91.9	93.3	95.2	95.7	96.1	96.1	96.1	96.1	96.1
≥ 400	42.7	56.6	64.3	70.0	80.6	83.6	89.2	92.8	94.2	97.0	97.5	98.1	98.1	98.1	98.1	98.1
≥ 300	42.7	56.6	64.3	70.0	80.6	83.6	89.2	93.0	94.6	97.5	98.0	98.6	98.6	98.6	98.6	98.6
≥ 200	42.7	56.6	64.3	70.0	80.6	83.6	89.2	93.0	94.6	97.6	98.1	98.8	98.8	98.8	98.8	98.8
≥ 100	42.7	56.6	64.3	70.0	80.6	83.6	89.2	93.0	94.6	97.6	98.1	98.8	98.8	98.8	98.8	98.8
≥ 0	42.7	56.6	64.3	70.0	80.6	83.6	89.2	93.1	94.7	97.7	98.2	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 832

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
17120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,76-81

MONTH  
FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	13.2	18.3	19.9	22.1	26.6	27.3	27.5	28.7	28.7	28.7	28.7	28.9	29.3	29.5	29.5	29.5
≥ 20000	15.6	20.9	22.3	24.9	30.0	30.7	31.2	32.5	32.5	32.5	32.5	32.8	33.2	33.4	33.5	33.5
IV 18000	16.0	21.4	22.8	25.5	30.6	31.3	31.7	33.1	33.1	33.1	33.1	33.4	33.8	33.9	34.1	34.1
IV 16000	16.7	21.4	22.8	25.5	30.6	31.3	31.7	33.1	33.1	33.1	33.1	33.4	33.8	33.9	34.1	34.1
IV 14000	16.4	21.8	23.2	25.9	31.2	31.8	32.3	33.7	33.7	33.7	33.7	33.9	34.4	34.5	34.6	34.6
IV 12000	16.6	22.0	23.4	26.0	31.3	32.0	32.4	33.8	33.8	33.8	33.8	34.1	34.5	34.6	34.8	34.8
IV 10000	17.1	23.2	24.6	27.3	32.7	33.4	33.8	35.2	35.2	35.2	35.2	35.5	35.9	36.0	36.2	36.2
IV 9000	17.8	24.8	26.3	29.1	34.5	35.3	36.0	37.6	37.6	37.6	37.6	37.8	38.2	38.4	38.5	38.5
IV 8000	19.7	27.1	28.7	31.4	37.0	38.0	39.1	41.0	41.3	41.3	41.3	41.6	42.0	42.1	42.3	42.3
IV 7000	20.4	29.2	30.7	33.8	39.5	40.8	42.1	44.4	44.6	44.8	44.8	45.1	45.5	45.6	45.8	45.8
IV 6000	21.0	30.3	31.8	35.2	41.2	42.4	43.8	46.0	46.3	46.5	46.5	46.7	47.1	47.3	47.4	47.4
IV 5000	22.3	32.1	33.8	37.8	44.1	45.3	46.7	49.0	49.8	49.5	49.5	49.8	50.2	50.3	50.5	50.5
IV 4500	23.6	33.7	35.7	39.9	46.6	48.0	49.4	51.7	52.2	52.3	52.3	52.6	53.0	53.1	53.3	53.3
IV 4000	25.6	36.0	38.1	42.7	49.7	51.0	52.4	54.8	55.8	55.5	55.5	55.8	56.2	56.3	56.5	56.5
IV 3500	26.4	38.4	40.8	45.5	53.0	54.5	56.1	58.4	59.1	59.2	59.2	59.5	59.9	60.1	60.2	60.2
IV 3000	28.2	41.9	45.3	50.3	59.2	60.8	62.6	65.0	65.6	65.8	65.8	66.1	66.5	66.6	66.8	66.8
IV 2500	30.0	44.4	48.1	53.1	62.9	64.4	66.5	68.8	69.5	69.7	69.8	70.1	70.5	70.7	70.8	70.8
IV 2000	31.0	46.0	50.3	55.9	66.2	67.9	70.1	72.6	73.3	73.7	73.9	74.3	74.7	74.8	75.0	75.0
IV 1800	31.6	46.9	51.7	57.4	68.8	70.7	73.3	75.8	76.5	76.9	77.1	77.5	77.9	78.0	78.2	78.2
IV 1500	31.6	47.7	52.7	58.6	70.4	72.3	75.4	78.6	79.7	80.1	80.3	80.7	81.1	81.2	81.4	81.4
IV 1200	32.3	49.7	54.2	60.5	73.2	75.4	79.3	83.0	84.1	84.6	84.7	85.1	85.5	85.7	85.8	85.8
IV 1000	32.7	49.2	55.1	61.6	75.0	77.6	81.8	85.5	86.6	87.1	87.2	87.6	88.0	88.2	88.3	88.3
IV 900	32.8	49.4	55.4	61.9	75.5	78.2	82.3	86.2	87.3	87.9	88.0	88.5	88.9	89.0	89.2	89.2
IV 800	33.2	49.8	55.8	62.3	77.1	80.0	84.4	88.5	89.6	90.1	90.4	90.8	91.2	91.4	91.5	91.5
IV 700	33.2	49.9	55.9	62.4	77.6	80.5	85.1	89.3	90.4	91.0	91.2	91.7	92.1	92.2	92.4	92.4
IV 600	33.2	49.9	56.1	62.7	78.0	80.9	85.8	90.4	91.8	92.6	93.2	93.6	94.0	94.2	94.3	94.3
IV 500	33.2	49.9	56.3	63.1	79.3	82.2	87.2	92.2	93.7	94.7	95.4	95.8	96.2	96.5	96.7	96.7
IV 400	33.2	49.9	56.3	63.1	79.3	82.2	87.2	92.5	94.3	95.3	96.1	96.5	96.9	97.5	97.6	97.6
IV 300	33.2	49.9	56.3	63.1	79.3	82.2	87.2	92.9	94.9	96.1	96.9	97.4	98.1	98.9	99.0	99.0
IV 200	33.2	49.9	56.3	63.1	79.3	82.2	87.2	92.9	95.1	96.4	97.4	97.9	98.6	99.4	99.6	99.6
IV 100	33.2	49.9	56.3	63.1	79.3	82.2	87.2	92.9	95.1	96.5	97.5	98.1	98.7	99.6	99.7	100.0
IV 0	33.2	49.9	56.3	63.1	79.3	82.2	87.2	92.9	95.1	96.5	97.5	98.1	98.7	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 719



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,76-81

FEET  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

6100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING	13.5	23.6	21.6	24.3	29.3	29.7	31.9	33.1	33.4	33.6	33.7	33.9	34.1	34.1	34.6	34.7
≥ 20000	14.8	22.1	23.6	26.3	32.2	32.5	34.9	36.1	36.4	36.6	36.8	36.9	37.1	37.1	37.6	37.8
≥ 18000	15.3	22.6	24.1	26.8	32.9	33.2	35.6	36.8	37.1	37.3	37.4	37.6	37.8	37.8	38.3	38.4
≥ 16000	15.3	22.6	24.1	26.8	32.9	33.2	35.6	36.8	37.1	37.3	37.4	37.6	37.8	37.8	38.3	38.4
≥ 14000	15.3	22.6	24.1	26.8	32.9	33.2	35.6	36.8	37.1	37.3	37.4	37.6	37.8	37.8	38.3	38.4
≥ 12000	15.3	22.6	24.1	26.8	32.9	33.2	35.6	36.8	37.1	37.3	37.4	37.6	37.8	37.8	38.3	38.4
≥ 10000	15.3	23.4	25.0	27.7	34.2	34.7	37.1	38.3	38.6	38.8	39.0	39.1	39.3	39.3	39.8	40.0
≥ 9000	15.5	24.3	25.8	28.8	35.4	36.1	38.4	39.6	40.0	40.1	40.3	40.5	40.6	40.6	41.1	41.3
≥ 8000	16.5	26.1	27.7	30.9	37.6	38.3	40.8	42.3	42.7	42.8	43.0	43.2	43.3	43.3	43.8	44.0
≥ 7000	17.0	27.7	29.2	33.4	40.3	41.3	44.0	45.5	45.9	46.0	46.2	46.4	46.5	46.5	47.0	47.2
≥ 6000	18.3	30.0	31.7	36.1	43.3	44.4	47.0	48.6	48.9	49.1	49.2	49.4	49.6	49.6	50.1	50.3
≥ 5000	19.1	31.2	32.9	37.3	44.5	45.5	48.2	49.9	50.8	50.8	50.9	51.1	51.3	51.3	51.8	51.9
≥ 4500	19.6	32.2	34.1	38.6	46.4	47.4	50.1	51.8	52.3	52.6	52.8	53.0	53.1	53.1	53.6	53.8
≥ 4000	21.1	35.2	37.1	42.2	50.1	51.3	54.1	56.3	56.8	57.2	57.3	57.5	57.7	57.7	58.2	58.3
≥ 3500	22.3	37.6	39.8	45.2	54.0	55.3	58.2	60.5	61.0	61.4	61.6	61.7	61.9	61.9	62.4	62.6
≥ 3000	23.9	40.1	42.3	48.1	57.7	59.0	62.1	64.4	64.9	65.3	65.4	65.6	65.8	65.8	66.3	66.4
≥ 2500	24.5	41.1	43.7	49.9	60.4	61.7	64.8	67.1	67.6	68.0	68.1	68.3	68.5	68.5	69.0	69.1
≥ 2000	24.8	41.7	45.5	52.4	63.9	65.4	68.8	71.2	71.7	72.3	72.5	72.7	72.8	72.8	73.4	73.5
≥ 1800	25.1	42.0	46.0	53.0	64.9	66.4	70.5	72.8	73.4	74.0	74.2	74.4	74.5	74.5	75.0	75.2
≥ 1500	25.6	44.0	48.2	55.5	68.6	70.2	74.5	77.4	77.9	78.6	78.8	78.9	79.1	79.3	79.8	79.9
≥ 1200	26.6	45.9	50.4	58.7	73.2	74.9	79.9	82.8	83.3	84.0	84.3	84.5	84.7	85.0	85.5	85.7
≥ 1000	27.2	46.7	51.6	59.9	75.2	76.9	82.8	85.7	86.2	86.8	87.2	87.4	87.5	88.0	88.5	88.7
≥ 900	27.2	46.9	51.9	60.4	76.1	77.7	83.8	86.8	87.4	88.2	88.5	88.7	88.9	89.4	89.9	90.1
≥ 800	27.5	47.4	52.6	61.2	77.6	79.3	85.7	88.7	89.2	90.1	90.4	90.6	90.7	91.4	91.9	92.1
≥ 700	27.7	47.9	53.1	61.7	78.2	79.9	86.5	89.7	90.2	91.1	91.4	91.6	91.7	92.4	92.9	93.1
≥ 600	27.7	48.1	53.3	61.9	78.6	80.3	87.0	90.7	91.7	92.9	93.3	93.4	93.6	94.3	94.8	94.9
≥ 500	27.7	48.2	53.6	62.2	79.4	81.3	88.2	91.9	92.9	94.3	94.8	94.9	95.1	96.1	96.6	96.8
≥ 400	27.7	48.2	53.6	62.2	79.4	81.3	88.2	92.1	93.1	94.6	95.1	95.3	95.4	96.5	97.0	97.1
≥ 300	27.7	48.2	53.6	62.2	79.4	81.3	88.4	92.9	93.9	96.0	96.5	96.6	96.8	98.0	98.5	98.7
≥ 200	27.7	48.2	53.6	62.2	79.4	81.3	88.4	93.1	94.1	96.1	96.6	96.8	97.0	98.3	98.8	99.2
≥ 100	27.7	48.2	53.6	62.2	79.4	81.3	88.4	93.1	94.1	96.6	97.1	97.3	97.5	98.8	99.7	100.0
≥ 0	27.7	48.2	53.6	62.2	79.4	81.3	88.4	93.1	94.1	96.6	97.1	97.3	97.5	98.8	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 593

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
127

STATION NAME  
SEMBACH AB DL

YEARS  
65-68, 76-81

PER MONTH  
FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	10.3	15.4	17.1	19.1	21.9	22.8	24.1	25.2	25.6	25.9	26.1	26.2	26.4	26.5	26.6	26.9
≥ 20000	12.0	17.2	19.2	21.3	24.5	25.4	27.1	28.2	28.6	29.0	29.1	29.2	29.4	29.6	29.7	30.0
≥ 18000	12.4	17.6	19.6	21.7	25.0	25.9	27.5	28.7	29.1	29.5	29.6	29.8	30.0	30.1	30.2	30.5
≥ 16000	12.4	17.7	19.6	21.7	25.0	26.0	27.6	28.8	29.2	29.6	29.7	29.8	30.0	30.2	30.3	30.5
≥ 14000	12.7	18.0	19.9	22.1	25.3	26.3	27.9	29.1	29.5	29.9	30.0	30.2	30.4	30.5	30.6	30.9
≥ 12000	13.3	18.6	20.6	22.7	26.0	27.0	28.6	29.8	30.2	30.6	30.7	30.8	31.0	31.2	31.3	31.6
≥ 10000	14.0	19.7	21.7	24.0	27.3	28.3	30.0	31.3	31.7	32.1	32.3	32.4	32.6	32.7	32.9	33.2
≥ 9000	14.5	20.6	22.6	24.9	28.3	29.4	31.1	32.4	32.8	33.2	33.4	33.5	33.7	33.9	34.0	34.3
≥ 8000	15.9	22.5	24.6	27.1	30.6	31.7	33.5	35.0	35.4	35.9	36.1	36.3	36.5	36.8	36.9	37.2
≥ 7000	16.6	23.9	26.1	29.0	32.7	34.1	35.9	37.5	38.0	38.6	38.8	38.9	39.2	39.5	39.6	39.9
≥ 6000	17.4	25.7	28.7	31.0	34.9	36.5	38.3	39.9	40.4	41.0	41.2	41.4	41.6	41.9	42.0	42.4
≥ 5000	18.5	27.1	29.5	32.7	36.9	38.3	40.4	42.1	42.6	43.2	43.5	43.6	43.9	44.1	44.3	44.6
≥ 4500	19.5	28.6	31.1	34.4	38.7	40.2	42.3	44.1	44.7	45.3	45.5	45.7	46.0	46.3	46.4	46.7
≥ 4000	20.9	30.6	33.2	36.8	41.4	42.9	45.3	47.2	47.8	48.5	48.7	48.9	49.2	49.5	49.6	49.9
≥ 3500	22.3	32.8	35.6	39.5	44.6	46.2	48.8	50.8	51.5	52.2	52.5	52.7	52.9	53.2	53.4	53.7
≥ 3000	23.9	35.3	38.4	42.6	48.2	49.9	52.6	54.8	55.5	56.3	56.5	56.8	57.0	57.4	57.6	57.9
≥ 2500	25.8	38.2	41.7	46.2	52.4	54.1	57.1	59.3	60.1	60.9	61.2	61.4	61.7	62.1	62.2	62.5
≥ 2000	27.8	41.0	45.0	50.0	56.8	58.6	61.8	64.2	65.0	65.9	66.2	66.4	66.7	67.1	67.2	67.5
≥ 1800	28.3	41.7	46.0	51.0	58.2	60.2	63.5	66.0	66.8	67.7	68.0	68.2	68.5	68.9	69.0	69.3
≥ 1500	29.2	43.5	48.2	53.6	61.5	63.6	67.4	70.2	71.1	72.1	72.4	72.6	72.9	73.3	73.4	73.8
≥ 1200	30.6	45.5	51.0	57.1	66.3	68.6	73.0	76.5	77.6	78.8	79.1	79.4	79.6	80.1	80.2	80.6
≥ 1000	31.1	46.3	52.2	58.7	68.7	71.3	76.1	79.9	81.1	82.3	82.6	82.9	83.2	83.6	83.8	84.1
≥ 900	31.3	46.6	52.7	59.3	69.7	72.5	77.5	81.5	82.7	84.1	84.4	84.7	85.0	85.4	85.6	85.9
≥ 800	31.7	47.5	53.7	60.5	71.6	74.4	79.6	83.8	85.2	86.6	87.0	87.4	87.6	88.1	88.2	88.6
≥ 700	31.8	47.7	54.1	61.1	72.4	75.3	80.8	85.1	86.5	88.2	88.6	89.0	89.2	89.7	89.8	90.2
≥ 600	31.9	47.9	54.3	61.3	72.9	76.0	81.8	86.5	88.2	90.2	90.7	91.1	91.4	91.9	92.0	92.3
≥ 500	31.9	47.9	54.5	61.6	73.7	77.1	83.1	87.9	89.8	92.1	92.8	93.2	93.5	94.1	94.2	94.6
≥ 400	31.9	47.9	54.5	61.7	73.8	77.4	83.7	88.8	90.8	93.5	94.2	94.7	95.1	95.8	96.0	96.4
≥ 300	31.9	47.9	54.5	61.7	73.9	77.4	83.9	89.2	91.5	94.4	95.2	95.7	96.3	97.1	97.4	97.8
≥ 200	31.9	47.9	54.5	61.7	73.9	77.4	83.9	89.3	91.6	94.6	95.6	96.2	96.9	98.1	98.4	99.2
≥ 100	31.9	47.9	54.5	61.7	73.9	77.4	83.9	89.3	91.6	94.7	95.7	96.3	97.0	98.3	98.6	100.0
≥ 0	31.9	47.9	54.5	61.7	73.9	77.4	83.9	89.3	91.7	94.7	95.7	96.3	97.0	98.3	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 5330

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
17120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68, 77-81

MONTH  
MAR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-2359  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/8	≥0	≥0
NO CEILING ≥ 20000	17.8	28.6	30.3	33.3	34.7	36.2	38.9	39.9	40.6	40.8	41.1	41.1	41.1	41.3	41.3	41.3
IV 18000 16000	19.6	30.3	32.0	35.0	36.4	37.9	40.6	41.6	42.3	42.5	42.8	42.8	42.8	43.0	43.0	43.0
IV 14000 12000	19.8	30.6	32.3	35.2	36.7	38.1	40.8	41.8	42.5	42.8	43.0	43.0	43.0	43.3	43.3	43.3
IV 10000 9000	20.3	31.5	33.3	36.2	37.7	39.1	41.8	42.8	43.5	43.8	44.0	44.0	44.0	44.3	44.3	44.3
IV 8000 7000	22.7	35.0	37.2	40.1	41.8	44.0	46.7	47.7	48.4	48.7	48.9	48.9	48.9	49.1	49.1	49.1
IV 6000 5000	25.4	40.8	44.0	47.7	50.4	52.8	55.7	56.7	57.5	57.7	57.9	57.9	57.9	58.2	58.2	58.2
IV 4500 4000	26.4	43.5	47.7	51.3	54.0	56.7	59.7	60.6	61.4	61.6	61.9	61.9	61.9	62.1	62.1	62.8
IV 3500 3000	28.9	47.4	52.3	56.0	59.9	62.1	65.0	66.0	66.7	67.0	67.2	67.2	67.2	67.5	67.5	68.2
IV 2500 2000	33.3	55.3	60.4	64.5	68.0	71.1	74.1	75.1	75.8	76.0	76.3	76.3	76.3	76.5	76.5	77.3
IV 1800 1500	34.2	58.9	65.0	69.4	73.6	76.8	79.7	80.7	81.4	81.7	82.2	82.2	82.2	82.4	82.4	83.1
IV 1200 1000	35.7	61.1	68.0	73.1	77.5	80.7	84.1	85.1	85.8	86.1	86.6	86.6	86.6	86.8	86.8	87.5
IV 900 800	35.7	63.1	70.9	78.5	84.1	87.5	91.4	93.4	94.1	94.9	95.4	95.4	95.4	95.6	95.6	96.3
IV 700 600	35.7	63.6	71.4	80.0	85.6	89.0	92.9	94.9	95.8	96.6	97.1	97.1	97.1	97.3	97.3	98.0
IV 500 400	35.7	63.8	72.1	80.9	86.6	90.0	93.9	95.8	96.8	97.6	98.3	98.3	98.3	98.5	98.5	99.3
IV 300 200	35.7	63.8	72.1	80.9	86.6	90.0	93.9	95.8	96.8	97.6	98.0	99.0	99.0	99.3	99.3	100.0
IV 100 0	35.7	63.8	72.1	80.9	86.6	90.0	93.9	95.8	96.8	97.6	98.0	99.0	99.0	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 429

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7123  
STATION

SEMBACH AB DL  
STATION NAME

65-68,77-81  
YEARS

MAD  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	14.9	21.6	22.8	24.4	25.7	25.9	28.1	28.7	28.7	29.9	30.3	30.3	30.3	30.5	30.5	31.0
≥ 20000	17.3	24.4	25.7	27.5	28.9	29.3	31.8	32.0	32.0	33.2	33.6	33.6	33.6	33.8	33.8	34.6
≥ 18000	17.3	24.4	25.7	27.7	29.1	29.5	31.6	32.2	32.2	33.4	33.8	33.8	33.8	34.0	34.0	34.8
≥ 16000	17.3	24.4	25.7	27.7	29.1	29.5	31.6	32.2	32.2	33.4	33.8	33.8	33.8	34.0	34.0	34.8
≥ 14000	17.3	24.4	25.7	27.7	29.1	29.5	31.6	32.2	32.2	33.4	33.8	33.8	33.8	34.0	34.0	34.8
≥ 12000	17.3	24.4	25.7	27.7	29.1	29.5	31.6	32.2	32.2	33.4	33.8	33.8	33.8	34.0	34.0	34.8
≥ 10000	17.3	24.4	25.7	27.7	29.1	29.5	31.6	32.2	32.2	33.4	33.8	33.8	33.8	34.0	34.0	34.8
≥ 9000	17.3	24.4	25.7	27.7	29.1	29.5	31.6	32.2	32.2	33.4	33.8	33.8	33.8	34.0	34.0	34.8
≥ 8000	19.1	26.7	28.3	30.3	32.6	33.2	35.8	36.3	36.3	37.7	38.1	38.1	38.1	38.3	38.3	39.1
≥ 7000	20.2	28.5	30.3	32.2	35.0	36.0	38.5	39.1	39.1	40.5	40.9	40.9	40.9	41.1	41.1	41.8
≥ 6000	21.8	31.2	33.0	35.0	37.9	39.3	42.0	42.6	42.6	44.0	44.4	44.4	44.4	44.6	44.6	45.4
≥ 5000	23.4	33.2	35.4	37.5	40.7	42.2	45.0	45.6	45.6	47.3	47.7	47.9	47.9	48.1	48.1	48.9
≥ 4500	24.6	34.4	36.9	39.3	42.8	44.6	48.1	48.7	49.1	50.9	51.3	51.5	51.5	51.7	51.7	52.7
≥ 4000	25.5	35.6	38.1	40.5	44.2	46.0	49.5	50.1	50.5	52.3	52.7	52.8	52.8	53.0	53.0	54.0
≥ 3500	28.3	39.5	42.6	45.6	49.3	51.3	54.8	55.4	55.8	57.6	58.0	58.2	58.2	58.3	58.3	59.3
≥ 3000	29.9	42.0	45.8	48.7	52.5	55.2	58.9	59.5	59.9	61.7	62.1	62.3	62.3	62.5	62.5	63.5
≥ 2500	31.0	46.4	50.9	54.6	58.7	61.5	65.4	66.0	66.4	68.2	68.6	68.8	68.8	69.0	69.0	69.9
≥ 2000	33.4	50.9	56.8	61.3	65.4	68.2	72.1	72.7	73.1	74.9	75.2	75.6	75.6	75.8	75.8	76.8
≥ 1800	33.4	51.9	58.2	62.7	66.8	69.7	73.9	74.7	75.0	76.8	77.2	77.6	77.6	77.8	77.8	78.8
≥ 1500	34.4	53.4	60.1	64.8	69.4	72.7	76.8	77.6	78.0	79.8	80.2	80.6	80.6	80.7	80.7	81.7
≥ 1200	35.6	57.2	65.0	70.9	76.0	79.6	83.9	84.7	85.1	86.8	87.2	87.6	87.6	87.8	87.8	88.8
≥ 1000	35.8	57.8	65.8	72.5	78.2	82.1	86.6	87.4	87.8	89.6	90.0	90.4	90.4	90.6	90.6	91.6
≥ 900	35.8	58.2	66.2	72.9	79.0	82.9	87.4	88.2	88.6	90.4	90.8	91.2	91.2	91.4	91.4	92.3
≥ 800	35.8	58.7	67.0	74.1	80.6	84.7	89.4	90.4	91.2	92.9	93.3	93.7	93.7	93.9	93.9	94.9
≥ 700	35.8	58.7	67.0	74.5	81.3	86.2	91.0	91.9	92.7	94.5	94.9	95.5	95.5	95.7	95.7	96.7
≥ 600	35.8	58.9	67.4	74.9	82.1	87.0	91.7	92.7	93.5	95.3	95.7	96.3	96.3	96.5	96.5	97.4
≥ 500	35.8	58.9	67.4	74.9	82.1	87.0	91.9	92.9	93.7	95.5	95.9	96.5	96.5	96.7	96.7	97.6
≥ 400	35.8	58.9	67.4	74.9	82.1	87.0	91.9	92.9	93.7	95.5	95.9	96.5	96.5	96.7	96.7	97.6
≥ 300	35.8	58.9	67.4	74.9	82.3	87.2	92.3	93.3	94.1	96.5	96.9	97.4	97.4	97.6	97.6	98.6
≥ 200	35.8	58.9	67.4	74.9	82.3	87.2	92.7	93.9	94.7	97.2	97.6	98.4	98.4	98.6	98.6	99.0
≥ 100	35.8	58.9	67.4	74.9	82.3	87.2	92.7	93.9	94.7	97.2	97.6	98.4	98.4	98.6	98.6	99.0
≥ 0	35.8	58.9	67.4	74.9	82.3	87.2	92.7	93.9	94.7	97.2	97.6	98.4	98.4	98.6	98.6	99.0

TOTAL NUMBER OF OBSERVATIONS 509

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

MAR  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

600-2800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	14.9	19.7	21.6	22.3	24.6	24.8	25.7	26.4	26.8	27.8	28.2	28.3	29.4	28.8	29.8	29.2
≥20000	17.7	22.7	24.6	25.3	27.5	27.8	29.3	30.1	30.5	31.5	31.9	32.0	32.4	32.9	32.9	33.3
IV 18000	17.7	22.8	24.7	25.4	27.8	28.0	29.5	30.4	30.8	31.8	32.1	32.3	32.8	33.3	33.3	33.6
IV 16000	17.7	22.8	24.7	25.4	27.8	28.0	29.5	30.4	30.8	31.8	32.1	32.3	32.8	33.3	33.3	33.6
IV 14000	17.7	23.1	25.1	25.8	28.2	28.4	29.9	30.8	31.1	32.1	32.6	32.8	33.3	33.7	33.7	34.1
IV 12000	18.0	23.3	25.4	26.2	28.5	28.8	30.3	31.1	31.5	32.5	33.1	33.4	33.9	34.4	34.4	34.7
IV 10000	18.5	24.2	26.4	27.3	29.7	29.9	31.6	32.8	33.1	34.1	34.7	35.0	35.5	36.0	36.0	36.4
IV 9000	19.2	24.9	27.2	28.2	30.6	30.9	32.6	33.9	34.4	35.5	36.1	36.4	36.8	37.3	37.3	37.7
IV 8000	21.7	27.9	30.3	31.4	33.9	34.1	35.9	37.2	37.7	38.8	39.5	39.7	40.2	40.7	40.7	41.1
IV 7000	22.3	28.9	31.3	32.8	35.7	36.0	37.7	39.3	39.8	40.9	41.6	41.8	42.3	42.8	42.8	43.2
IV 6000	22.8	29.8	32.4	34.1	37.6	38.0	39.7	41.3	41.8	42.9	43.5	43.8	44.3	44.8	44.8	45.2
IV 5000	24.4	31.6	34.7	36.5	40.0	40.3	42.2	44.2	44.9	46.0	46.7	46.9	47.5	48.0	48.0	48.4
IV 4500	25.9	33.3	36.5	38.5	41.9	42.3	44.4	46.8	47.8	49.3	49.9	50.2	50.9	51.4	51.4	51.7
IV 4000	27.3	35.6	38.8	41.1	45.0	45.4	47.6	50.1	51.1	52.6	53.2	53.6	54.2	54.7	54.7	55.2
IV 3500	29.2	37.6	41.6	43.8	48.4	48.8	51.0	53.5	54.6	56.1	56.7	57.1	57.8	58.4	58.4	58.9
IV 3000	31.1	40.1	44.2	46.5	51.1	51.7	54.1	56.7	57.8	59.3	59.9	60.3	61.0	61.6	61.6	62.4
IV 2500	33.0	43.5	48.0	50.6	56.2	57.2	59.9	62.5	63.9	65.4	66.0	66.4	67.1	67.9	68.0	68.5
IV 2000	35.4	47.0	52.0	55.0	60.7	61.8	64.5	67.1	68.5	70.1	70.7	71.1	71.8	72.7	72.8	73.3
IV 1800	35.4	47.5	52.5	55.6	61.8	62.9	65.8	68.4	69.7	71.3	72.0	72.3	73.2	74.1	74.2	74.7
IV 1500	36.8	50.1	56.2	59.9	67.2	68.4	71.5	74.1	75.4	77.0	77.7	78.0	78.9	79.8	79.9	80.4
IV 1200	37.6	52.9	59.8	64.4	72.3	73.7	77.2	79.9	81.5	83.3	83.9	84.2	85.1	86.0	86.1	86.6
IV 1000	38.3	54.2	61.8	66.9	75.6	77.2	80.9	83.7	85.4	87.1	87.7	88.1	89.0	89.8	89.9	90.4
IV 900	38.3	54.3	62.0	67.6	76.8	78.5	82.3	85.1	86.7	88.5	89.1	89.5	90.3	91.2	91.3	91.8
IV 800	38.3	54.6	62.4	68.2	77.9	79.7	83.4	86.2	88.0	90.0	90.6	90.9	91.9	92.8	92.9	93.4
IV 700	38.6	55.0	62.9	69.1	79.4	81.5	85.2	88.6	90.3	92.3	92.9	93.3	94.4	95.3	95.4	95.9
IV 600	38.6	55.0	63.2	69.4	79.7	81.8	85.5	88.8	90.7	93.1	93.7	94.0	95.2	96.0	96.2	96.7
IV 500	38.6	55.0	63.2	69.4	79.8	82.0	85.7	89.2	91.2	93.8	94.4	94.8	95.9	96.8	96.9	97.4
IV 400	38.6	55.0	63.2	69.4	79.8	82.0	86.0	89.5	91.6	94.2	94.9	95.3	96.4	97.3	97.4	97.9
IV 300	38.6	55.0	63.2	69.4	79.8	82.0	86.0	89.5	91.7	94.3	95.0	95.4	96.5	97.5	97.6	98.1
IV 200	38.6	55.0	63.2	69.4	79.8	82.0	86.2	89.8	92.1	94.7	95.7	96.2	97.4	98.6	99.0	99.8
IV 100	38.6	55.0	63.2	69.4	79.8	82.0	86.2	89.8	92.1	94.7	95.7	96.2	97.4	98.6	99.0	100.0
IV 0	38.6	55.0	63.2	69.4	79.8	82.0	86.2	89.8	92.1	94.7	95.7	96.2	97.4	98.6	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 806

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1977-1109  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	13.3	19.2	20.0	21.1	23.2	23.5	24.4	25.1	25.4	25.9	25.9	25.9	25.9	26.0	26.0	26.0
≥ 20000	18.1	23.5	24.4	25.5	28.1	28.7	29.9	30.7	31.2	31.7	31.7	31.9	31.9	32.0	32.0	32.0
IN 18000	18.3	23.7	24.5	25.6	28.2	28.8	30.0	30.8	31.3	31.9	31.9	32.0	32.0	32.1	32.1	32.1
IN 16000	18.3	23.7	24.5	25.6	28.2	28.8	30.0	30.8	31.3	31.9	31.9	32.0	32.0	32.1	32.1	32.1
IN 14000	18.8	24.3	25.3	26.3	28.9	29.6	30.8	31.5	32.1	32.6	32.6	32.7	32.7	32.8	32.8	32.8
IN 12000	19.9	25.4	26.3	27.5	30.2	31.0	32.2	33.0	33.6	34.1	34.2	34.3	34.3	34.4	34.4	34.4
IN 10000	21.3	27.5	28.5	29.9	32.6	33.5	34.7	35.5	36.1	36.6	36.7	36.8	36.8	36.9	36.9	36.9
IN 9000	21.9	28.2	29.2	30.6	33.7	34.6	35.9	36.7	37.3	37.8	37.9	38.0	38.0	38.1	38.1	38.1
IN 8000	23.8	30.5	31.7	33.3	36.5	37.5	38.9	40.1	40.6	41.1	41.3	41.4	41.4	41.5	41.5	41.5
IN 7000	24.5	31.3	33.2	35.3	38.7	39.6	41.0	42.3	43.0	43.6	43.7	43.8	43.8	44.0	44.0	44.0
IN 6000	25.3	32.2	34.0	36.3	40.1	41.0	42.4	43.8	44.6	45.2	45.4	45.5	45.5	45.6	45.6	45.6
IN 5000	25.7	32.7	34.8	37.0	40.9	41.9	43.5	45.1	45.9	46.5	46.7	46.8	46.8	46.9	46.9	46.9
IN 4500	27.3	34.4	36.6	39.2	43.1	44.1	45.8	47.4	48.3	48.9	49.2	49.4	49.4	49.5	49.5	49.5
IN 4000	28.4	36.0	38.2	41.1	45.0	46.1	47.9	49.7	50.5	51.4	51.7	51.8	51.8	51.9	51.9	51.9
IN 3500	29.8	37.8	40.2	43.1	47.3	48.4	50.2	51.9	52.9	53.9	54.2	54.3	54.3	54.4	54.4	54.4
IN 3000	33.7	42.7	45.4	48.4	52.7	54.1	55.9	57.8	58.7	59.7	60.0	60.2	60.2	60.3	60.3	60.3
IN 2500	36.2	46.2	49.4	52.7	57.6	59.2	61.0	62.9	63.9	65.1	65.4	65.6	65.6	65.7	65.7	65.7
IN 2000	38.3	49.7	53.1	56.5	62.1	63.8	65.9	67.8	69.0	70.2	70.5	70.6	70.6	70.7	70.7	70.7
IN 1800	39.3	52.2	55.7	59.2	65.3	67.1	69.1	71.1	72.2	73.4	73.8	73.9	73.9	74.0	74.0	74.0
IN 1500	40.6	55.5	59.6	63.5	70.2	72.1	74.4	76.3	77.5	78.9	79.3	79.4	79.4	79.5	79.5	79.5
IN 1200	42.7	58.5	64.0	68.5	75.7	78.1	80.8	82.9	84.3	85.7	86.2	86.2	86.2	86.3	86.3	86.3
IN 1000	43.2	59.5	65.9	70.1	78.1	80.6	83.4	85.7	87.3	88.8	89.1	89.2	89.2	89.3	89.3	89.3
IN 900	43.2	59.6	65.6	70.6	79.4	81.9	84.8	87.3	89.0	90.5	90.8	90.9	90.9	91.0	91.0	91.0
IN 800	43.4	60.2	66.4	71.7	80.9	83.4	86.7	89.2	91.0	92.9	93.2	93.3	93.3	93.5	93.5	93.5
IN 700	43.4	60.5	66.8	72.5	81.7	84.3	87.8	90.4	92.3	94.3	94.6	94.7	94.7	94.9	94.9	94.9
IN 600	43.4	60.5	67.0	72.6	82.2	84.8	88.4	91.3	93.3	95.7	96.0	96.1	96.1	96.3	96.3	96.3
IN 500	43.4	60.5	67.0	72.7	82.4	85.1	88.8	91.9	94.2	97.1	97.6	97.7	97.7	97.9	97.9	97.9
IN 400	43.4	60.5	67.0	72.7	82.6	85.3	89.1	92.3	94.7	97.6	98.2	98.3	98.3	98.5	98.5	98.5
IN 300	43.4	60.5	67.0	72.7	82.6	85.3	89.2	92.5	95.0	97.9	98.5	98.7	98.7	99.0	99.0	99.0
IN 200	43.4	60.5	67.0	72.7	82.6	85.3	89.2	92.5	95.0	97.9	98.5	98.8	98.9	99.6	99.8	99.8
IN 100	43.4	60.5	67.0	72.7	82.6	85.3	89.2	92.5	95.0	97.9	98.5	98.8	98.9	99.7	99.9	100.0
IN 0	43.4	60.5	67.0	72.7	82.6	85.3	89.2	92.5	95.0	97.9	98.5	98.8	98.9	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 926

GLOBAL CLIMATOLOGY BRANCH  
GLAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
17127

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,76-81

MONTH  
MAR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)  
1200-1400

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/10	≥1/4	≥0
NO CEILING	16.6	23.9	22.6	23.5	24.1	24.5	24.7	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
≥20000	21.5	26.7	28.8	29.9	31.7	32.2	32.4	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
≥18000	21.6	26.8	28.9	30.0	31.8	32.3	32.5	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥16000	21.7	26.9	29.1	30.1	31.9	32.4	32.6	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
≥14000	22.0	27.4	29.6	30.8	32.6	33.0	33.2	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
≥12000	23.0	28.7	30.9	32.0	34.1	34.5	34.7	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
≥10000	24.4	30.6	33.0	34.2	36.2	36.7	37.0	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
≥9000	25.4	31.7	34.1	35.6	37.7	38.2	38.5	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
≥8000	26.7	33.3	35.7	37.4	39.6	40.0	40.4	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
≥7000	27.6	34.7	37.1	39.0	41.5	42.0	42.5	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥6000	28.1	35.3	38.0	40.2	42.7	43.3	43.8	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.4	44.4
≥5000	28.8	36.5	39.1	41.5	44.2	44.8	45.3	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.9	45.9
≥4500	29.9	37.7	40.6	43.0	45.9	46.7	47.3	48.0	48.0	48.0	48.0	48.0	48.0	48.1	48.1	48.1
≥4000	32.4	41.1	44.3	46.9	49.8	50.6	51.5	52.3	52.3	52.3	52.3	52.3	52.3	52.4	52.4	52.4
≥3500	35.7	45.1	48.4	51.2	54.1	54.9	56.0	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	56.9
≥3000	40.9	51.3	55.2	58.2	61.6	62.6	63.7	64.4	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5
≥2500	45.4	57.4	61.7	65.2	68.7	69.7	70.8	71.5	71.5	71.5	71.5	71.5	71.5	71.6	71.6	71.6
≥2000	49.4	63.4	68.5	72.9	77.3	78.5	79.8	80.6	80.6	80.6	80.6	80.6	80.6	80.8	80.8	80.8
≥1800	50.9	65.3	70.9	75.3	79.8	81.0	82.3	83.1	83.1	83.1	83.1	83.1	83.1	83.2	83.2	83.2
≥1500	53.3	69.4	75.4	79.8	84.9	86.2	87.5	88.4	88.5	88.5	88.5	88.5	88.5	88.6	88.6	88.6
≥1200	55.2	71.7	78.1	83.0	88.2	89.6	91.1	92.3	92.4	92.5	92.5	92.5	92.5	92.6	92.6	92.6
≥1000	55.7	72.9	79.6	84.7	90.1	91.7	93.3	94.5	94.6	94.7	94.7	94.7	94.7	94.8	94.8	94.8
≥900	55.8	73.2	79.9	85.4	91.8	92.4	94.0	95.3	95.4	95.5	95.5	95.5	95.5	95.6	95.6	95.6
≥800	55.8	73.2	80.1	85.8	91.8	93.1	94.8	96.2	96.3	96.6	96.6	96.6	96.6	96.7	96.7	96.7
≥700	55.8	73.2	80.2	85.9	91.9	93.8	95.6	97.0	97.3	97.5	97.5	97.5	97.5	97.6	97.6	97.6
≥600	55.8	73.2	80.2	85.9	92.3	94.1	95.9	97.5	98.3	98.6	98.6	98.6	98.6	98.7	98.8	98.8
≥500	55.8	73.2	80.2	85.9	92.6	94.4	96.5	98.4	99.1	99.5	99.5	99.5	99.5	99.7	99.7	99.7
≥400	55.8	73.2	80.2	85.9	92.6	94.4	96.5	98.4	99.1	99.6	99.6	99.6	99.6	99.7	99.8	99.8
≥300	55.8	73.2	80.2	85.9	92.6	94.4	96.5	98.4	99.1	99.6	99.6	99.6	99.6	99.7	99.8	99.8
≥200	55.8	73.2	80.2	85.9	92.6	94.4	96.5	98.4	99.1	99.6	99.6	99.6	99.6	99.7	99.8	99.8
≥100	55.8	73.2	80.2	85.9	92.6	94.4	96.5	98.4	99.1	99.6	99.6	99.6	99.6	99.7	99.8	99.8
≥0	55.8	73.2	80.2	85.9	92.6	94.4	96.5	98.4	99.1	99.6	99.6	99.6	99.6	99.7	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
17122

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,76-81

MONTH  
MAR

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	22.1	27.4	28.3	29.1	29.9	30.2	30.2	30.2	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 20000	27.3	33.9	34.3	35.5	36.9	37.2	37.2	37.2	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
IV 18000	27.7	33.7	34.7	35.8	37.2	37.6	37.6	37.6	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
IV 16000	27.7	33.7	34.7	35.8	37.2	37.6	37.6	37.6	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
IV 14000	28.2	34.4	35.4	36.6	38.0	38.3	38.3	38.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
IV 12000	29.1	35.5	36.6	37.9	39.5	39.8	39.8	39.8	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
IV 10000	30.2	37.7	38.9	40.3	42.6	42.9	42.9	42.9	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 9000	31.4	39.2	40.6	42.0	44.3	44.7	44.7	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 8000	34.0	42.4	43.9	45.7	48.2	48.5	48.8	48.9	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IV 7000	36.9	45.9	47.5	49.4	51.9	52.2	52.4	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IV 6000	38.0	47.5	49.6	51.7	54.1	54.6	54.8	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IV 5000	39.1	49.1	51.2	53.4	55.9	56.3	56.5	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 4500	40.9	51.2	53.6	56.1	58.9	59.3	59.5	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
IV 4000	43.8	54.9	57.4	60.2	63.0	63.4	63.7	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IV 3500	48.1	59.8	62.4	65.6	68.4	68.8	69.3	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 3000	51.9	65.6	68.8	72.6	75.9	76.6	77.2	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 2500	55.2	70.2	73.7	77.6	81.1	81.9	82.5	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IV 2000	58.6	74.5	78.6	83.0	86.7	87.5	88.1	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
IV 1800	59.2	75.7	79.9	84.3	87.9	88.8	89.5	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 1500	61.0	78.4	83.0	87.8	91.5	92.5	93.1	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 1200	61.8	79.5	84.5	89.3	93.1	94.1	94.7	95.2	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 1000	62.4	80.3	85.6	90.4	94.2	95.2	95.8	96.2	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 900	62.4	80.4	85.7	90.6	94.5	95.5	96.1	96.6	96.7	96.9	97.0	97.0	97.0	97.1	97.1	97.1
IV 800	62.4	80.4	85.7	91.0	95.0	96.0	96.7	97.1	97.5	97.7	98.0	98.0	98.0	98.1	98.1	98.1
IV 700	62.6	80.6	86.0	91.3	96.1	97.1	97.7	98.2	98.6	98.8	99.0	99.0	99.0	99.1	99.1	99.1
IV 600	62.6	80.6	86.0	91.3	96.2	97.2	98.0	98.5	98.9	99.1	99.4	99.4	99.4	99.5	99.5	99.5
IV 500	62.6	80.6	86.0	91.3	96.4	97.4	98.2	98.7	99.1	99.4	99.6	99.6	99.6	99.7	99.7	99.7
IV 400	62.6	80.6	86.0	91.3	96.4	97.4	98.2	98.7	99.1	99.4	99.7	99.7	99.7	99.8	99.8	99.8
IV 300	62.6	80.6	86.0	91.3	96.4	97.4	98.2	98.7	99.1	99.4	99.7	99.7	99.7	99.8	99.8	99.8
IV 200	62.6	80.6	86.0	91.3	96.4	97.4	98.2	98.7	99.1	99.4	99.7	99.7	99.7	99.8	99.8	99.8
IV 100	62.6	80.6	86.0	91.3	96.4	97.4	98.2	98.7	99.1	99.4	99.7	99.7	99.7	99.8	99.8	99.8
IV 0	62.6	80.6	86.0	91.3	96.4	97.4	98.2	98.7	99.1	99.4	99.7	99.7	99.7	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 929



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
0120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,76-81

MONTH  
MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING	25.5	30.3	31.4	32.1	34.0	34.5	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
≥ 20000	30.6	36.1	37.2	38.0	40.6	41.1	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥ 18000	30.9	36.4	37.5	38.2	40.8	41.3	41.8	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 16000	31.4	36.9	38.0	38.7	41.3	41.8	42.3	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
≥ 14000	31.8	37.2	38.4	39.1	41.7	42.2	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
≥ 12000	32.6	38.5	39.6	40.5	43.2	43.7	44.2	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
≥ 10000	34.0	40.2	41.6	42.6	45.5	46.2	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
≥ 9000	35.6	42.6	44.0	45.0	47.9	48.7	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 8000	38.5	46.6	47.9	49.1	52.4	53.2	53.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 7000	40.1	48.8	50.3	51.6	54.9	55.7	56.2	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 6000	40.8	50.4	53.2	54.8	58.2	58.9	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 5000	42.2	53.1	55.9	57.5	60.9	61.6	62.1	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 4500	44.3	55.4	58.3	60.3	63.6	64.4	64.9	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 4000	46.1	58.4	61.4	63.8	67.2	68.2	68.7	69.5	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 3500	48.9	62.8	65.9	68.5	72.0	73.0	73.8	74.6	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 3000	53.3	68.2	71.7	74.7	78.5	79.6	80.4	81.3	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 2500	54.8	70.4	74.0	77.6	81.8	82.9	84.1	85.3	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 2000	56.3	73.1	77.1	81.1	85.7	86.8	88.0	89.3	89.8	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 1800	56.5	73.7	78.0	81.9	86.6	87.7	89.0	90.3	90.8	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1500	57.7	75.2	80.6	84.7	89.5	90.7	92.0	93.5	94.0	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 1200	58.2	76.0	81.3	86.2	91.3	92.5	94.0	95.5	96.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1000	58.3	76.1	81.6	86.4	91.7	92.9	94.4	95.9	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 900	58.3	76.1	81.7	86.8	92.0	93.3	94.8	96.3	96.8	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800	58.3	76.1	81.7	86.8	92.0	93.3	94.8	96.3	96.8	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700	58.3	76.1	81.8	87.0	92.4	93.6	95.3	96.8	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 600	58.5	76.3	82.1	87.3	92.7	93.9	95.5	97.0	97.5	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500	58.5	76.3	82.2	87.5	93.2	94.4	96.0	97.5	98.0	98.8	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400	58.5	76.3	82.2	87.5	93.2	94.4	96.0	97.5	98.0	98.9	99.1	99.1	99.1	99.1	99.1	99.1
≥ 300	58.5	76.3	82.2	87.5	93.2	94.4	96.0	97.5	98.0	98.9	99.1	99.3	99.3	99.3	99.3	99.3
≥ 200	58.5	76.3	82.2	87.5	93.2	94.4	96.0	97.5	98.0	99.0	99.4	99.5	99.6	99.6	99.6	99.6
≥ 100	58.5	76.3	82.2	87.5	93.2	94.4	96.0	97.5	98.0	99.0	99.4	99.6	99.8	100.0	100.0	100.0
≥ 0	58.5	76.3	82.2	87.5	93.2	94.4	96.0	97.5	98.0	99.0	99.4	99.6	99.8	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 103

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
112

STATION NAME  
SEMBACH AB DL

YEARS  
65-68, 76-81

DATE  
1-1-2000

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MOON  
1-1-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/10	≥0	≥0
NO CEILING ≥ 20000	25.9	31.7	33.7	34.3	35.1	36.7	38.5	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
IV 18000	27.8	33.8	35.8	36.4	38.5	39.4	41.2	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
IV 16000	27.8	33.8	35.8	36.4	38.5	39.4	41.2	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
IV 14000	27.8	33.8	35.8	36.4	38.5	39.4	41.2	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
IV 12000	27.8	33.8	35.8	36.4	38.5	39.4	41.2	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
IV 10000	28.4	35.0	37.0	37.7	40.0	40.9	42.8	43.3	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
IV 9000	30.1	37.0	38.9	39.7	42.4	43.3	45.2	45.7	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IV 8000	33.1	41.6	43.7	44.5	47.8	48.7	50.6	51.0	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 7000	34.7	44.5	47.0	47.8	51.0	52.2	54.2	54.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IV 6000	37.0	48.1	51.2	52.5	56.3	57.6	59.6	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.3	60.3
IV 5000	38.8	51.0	54.3	55.7	59.4	60.8	62.7	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.5	63.5
IV 4500	39.2	52.8	56.1	57.8	61.5	62.9	64.8	65.4	65.9	65.9	65.9	65.9	65.9	65.9	66.1	66.1
IV 4000	41.8	55.8	59.1	60.9	64.7	66.0	68.1	68.9	69.3	69.3	69.3	69.3	69.3	69.3	69.5	69.5
IV 3500	44.5	59.4	63.3	65.1	68.9	70.4	72.6	73.4	73.8	73.8	73.8	73.8	73.8	73.8	74.0	74.1
IV 3000	46.7	62.7	66.8	69.0	73.1	74.6	76.8	77.5	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.3
IV 2500	48.7	66.0	70.7	73.4	77.5	79.2	81.9	83.2	83.8	83.8	83.8	83.8	83.8	83.8	84.0	84.1
IV 2000	51.2	69.3	74.6	77.7	81.9	83.5	86.2	87.6	88.2	88.2	88.2	88.2	88.2	88.2	88.3	88.5
IV 1800	51.6	69.8	75.0	78.1	82.6	84.6	87.3	88.6	89.2	89.2	89.2	89.2	89.2	89.2	89.4	89.5
IV 1500	51.9	70.2	75.9	79.3	83.8	86.1	88.9	90.4	91.0	91.0	91.0	91.0	91.0	91.0	91.2	91.3
IV 1200	52.2	71.6	77.5	81.1	86.5	89.1	92.2	94.2	94.9	94.9	94.9	94.9	94.9	94.9	95.1	95.2
IV 1000	52.4	71.9	78.3	82.0	87.4	90.3	93.4	95.4	96.1	96.1	96.1	96.1	96.1	96.1	96.3	96.4
IV 900	52.4	71.9	78.3	82.0	87.4	90.3	93.4	95.4	96.1	96.1	96.1	96.1	96.1	96.1	96.3	96.4
IV 800	52.4	72.0	78.4	82.5	87.9	90.7	93.9	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.9	97.0
IV 700	52.4	72.0	78.4	82.5	88.2	91.0	94.2	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.5
IV 600	52.5	72.2	78.6	82.6	88.3	91.2	94.3	96.9	97.6	97.6	97.6	97.6	97.6	97.6	97.8	97.9
IV 500	52.5	72.2	78.6	83.2	89.2	92.1	95.2	97.8	98.5	98.5	98.5	98.5	98.5	98.5	98.8	99.0
IV 400	52.5	72.2	78.6	83.2	89.2	92.1	95.4	97.9	98.7	99.1	99.1	99.1	99.1	99.1	99.4	99.6
IV 300	52.5	72.2	78.6	83.2	89.2	92.1	95.4	97.9	98.7	99.4	99.4	99.4	99.4	99.4	99.7	99.9
IV 200	52.5	72.2	78.6	83.2	89.2	92.1	95.4	97.9	98.7	99.4	99.6	99.6	99.6	99.6	99.9	100.0
IV 100	52.5	72.2	78.6	83.2	89.2	92.1	95.4	97.9	98.7	99.4	99.6	99.6	99.6	99.6	99.9	100.0
IV 0	52.5	72.2	78.6	83.2	89.2	92.1	95.4	97.9	98.7	99.4	99.6	99.6	99.6	99.6	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 664

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7127  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

MAP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	19.0	24.5	25.9	26.9	28.5	28.9	29.8	30.2	30.4	30.7	30.8	30.8	30.9	31.0	31.0	31.1
≥ 20000	22.8	28.8	30.3	31.4	33.4	34.0	35.0	35.5	35.7	36.1	36.2	36.2	36.2	36.4	36.4	36.5
≥ 18000	22.9	28.9	30.4	31.6	33.6	34.1	35.2	35.7	35.9	36.2	36.3	36.4	36.4	36.5	36.5	36.7
≥ 16000	23.1	29.0	30.5	31.7	33.7	34.2	35.3	35.8	36.0	36.3	36.4	36.4	36.5	36.6	36.6	36.7
≥ 14000	23.3	29.4	30.9	32.1	34.1	34.7	35.7	36.2	36.4	36.8	36.9	36.9	37.0	37.1	37.1	37.2
≥ 12000	23.9	30.2	31.8	33.0	35.2	35.7	36.8	37.3	37.5	37.9	38.0	38.1	38.1	38.3	38.3	38.4
≥ 10000	24.9	31.7	33.3	34.6	37.0	37.6	38.7	39.3	39.5	39.8	40.0	40.0	40.1	40.2	40.2	40.3
≥ 9000	25.9	32.9	34.6	36.0	38.5	39.2	40.4	40.9	41.1	41.5	41.7	41.7	41.8	41.9	41.9	42.0
≥ 8000	28.1	35.8	37.6	39.2	41.9	42.6	43.8	44.5	44.7	45.1	45.2	45.3	45.3	45.5	45.5	45.6
≥ 7000	29.9	37.8	39.8	41.6	44.5	45.3	46.5	47.2	47.5	47.9	48.0	48.1	48.1	48.3	48.3	48.4
≥ 6000	30.5	39.4	41.9	44.0	47.1	48.0	49.3	50.0	50.3	50.7	50.8	50.9	51.0	51.1	51.1	51.2
≥ 5000	31.6	41.1	43.8	45.9	49.1	50.1	51.4	52.2	52.5	53.0	53.1	53.2	53.3	53.4	53.4	53.5
≥ 4500	33.0	42.9	45.7	48.1	51.4	52.3	53.8	54.8	55.3	55.7	55.9	56.0	56.1	56.2	56.2	56.4
≥ 4000	34.8	45.5	48.4	51.0	54.4	55.5	57.1	58.1	58.6	59.1	59.3	59.4	59.5	59.6	59.6	59.8
≥ 3500	37.5	48.9	52.2	54.9	58.5	59.6	61.3	62.4	62.9	63.4	63.6	63.7	63.8	63.9	64.1	64.1
≥ 3000	40.8	53.3	57.0	60.0	63.8	65.2	66.9	68.1	68.6	69.1	69.3	69.4	69.5	69.6	69.7	69.9
≥ 2500	43.4	57.4	61.5	64.8	69.1	70.5	72.4	73.7	74.2	74.8	75.0	75.1	75.2	75.4	75.4	75.6
≥ 2000	45.9	61.4	66.1	69.9	74.5	76.1	78.0	79.3	79.9	80.5	80.7	80.8	80.9	81.1	81.2	81.4
≥ 1800	46.5	62.5	67.4	71.3	76.1	77.7	79.7	81.0	81.6	82.2	82.4	82.5	82.7	82.9	82.9	83.1
≥ 1500	47.9	65.0	70.5	74.7	79.9	81.7	83.8	85.2	85.8	86.4	86.6	86.7	86.9	87.1	87.1	87.3
≥ 1200	49.0	67.0	73.1	78.0	83.6	85.5	87.9	89.4	90.2	90.9	91.1	91.2	91.4	91.6	91.6	91.8
≥ 1000	49.4	67.8	74.3	79.3	85.3	87.4	89.8	91.5	92.2	93.0	93.2	93.3	93.4	93.6	93.6	93.8
≥ 900	49.4	67.9	74.4	79.7	86.0	88.1	90.6	92.2	93.0	93.8	94.0	94.1	94.2	94.4	94.4	94.6
≥ 800	49.4	68.1	74.8	80.4	86.8	88.9	91.6	93.3	94.1	95.0	95.3	95.4	95.5	95.7	95.7	96.0
≥ 700	49.5	68.3	75.0	80.8	87.6	89.9	92.5	94.3	95.3	96.2	96.4	96.5	96.7	96.9	96.9	97.2
≥ 600	49.5	68.4	75.2	81.0	87.9	90.2	92.9	94.8	95.9	96.9	97.1	97.3	97.4	97.7	97.7	97.9
≥ 500	49.5	68.4	75.2	81.1	88.3	90.6	93.3	95.4	96.5	97.6	97.9	98.1	98.2	98.5	98.5	98.7
≥ 400	49.5	68.4	75.2	81.1	88.3	90.6	93.4	95.5	96.6	98.0	98.3	98.4	98.6	98.9	98.9	99.1
≥ 300	49.5	68.4	75.2	81.1	88.3	90.6	93.5	95.6	96.7	98.1	98.5	98.6	98.8	99.1	99.1	99.3
≥ 200	49.5	68.4	75.2	81.1	88.3	90.6	93.5	95.7	96.8	98.2	98.7	98.9	99.2	99.5	99.6	99.9
≥ 100	49.5	68.4	75.2	81.1	88.3	90.6	93.5	95.7	96.8	98.2	98.7	98.9	99.2	99.6	99.7	100.0
≥ 0	49.5	68.4	75.2	81.1	88.3	90.6	93.5	95.7	96.8	98.2	98.7	98.9	99.2	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 5982

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,79,81

APC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

010-200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	31.8	42.3	45.1	46.9	49.4	49.7	50.1	50.8	50.8	51.3	51.3	51.3	51.5	51.5	51.5	51.7
≥ 20000	31.5	43.4	46.7	48.5	51.5	51.7	52.2	52.9	52.9	53.3	53.3	53.3	53.6	53.6	53.6	53.8
≥ 18000	31.5	43.4	46.7	48.5	51.5	51.7	52.2	52.9	52.9	53.3	53.3	53.3	53.6	53.6	53.6	53.8
≥ 16000	31.5	43.4	46.7	48.5	51.5	51.7	52.2	52.9	52.9	53.3	53.3	53.3	53.6	53.6	53.6	53.8
≥ 14000	31.5	43.4	46.7	48.5	51.5	51.7	52.2	52.9	52.9	53.3	53.3	53.3	53.6	53.6	53.6	53.8
≥ 12000	32.0	43.9	47.6	49.4	52.4	52.6	53.1	53.8	53.8	54.3	54.3	54.3	54.5	54.5	54.5	54.7
≥ 10000	32.2	44.8	48.5	50.8	53.8	54.0	54.5	55.2	55.2	55.6	55.6	55.6	55.9	55.9	55.9	56.1
≥ 9000	33.1	47.4	51.0	53.3	56.3	56.6	57.0	57.7	57.7	58.2	58.2	58.2	58.4	58.4	58.4	58.6
≥ 8000	35.4	53.3	57.2	59.5	62.5	62.8	63.2	63.9	63.9	64.4	64.4	64.4	64.6	64.6	64.6	64.8
≥ 7000	36.6	56.1	60.7	63.7	66.7	66.9	67.4	68.0	68.0	68.5	68.5	68.5	68.7	68.7	68.7	69.0
≥ 6000	37.2	59.1	63.9	67.6	71.0	71.7	72.2	72.9	73.1	73.6	73.8	73.8	74.0	74.0	74.0	74.3
≥ 5000	38.4	61.4	66.2	70.1	73.6	74.3	74.7	75.4	75.6	76.1	76.3	76.3	76.6	76.6	76.6	76.8
≥ 4500	39.1	63.2	68.3	72.2	75.6	76.3	77.0	77.7	77.9	78.4	78.6	78.6	78.9	78.9	78.9	79.1
≥ 4000	39.1	63.7	69.2	73.1	76.6	77.2	77.9	78.6	78.9	79.3	79.5	79.5	79.8	79.8	79.8	80.0
≥ 3500	43.0	65.5	70.8	74.9	78.6	79.5	80.5	81.1	81.4	81.8	82.1	82.1	82.3	82.3	82.3	82.5
≥ 3000	41.4	67.6	73.1	77.5	81.1	82.1	83.0	83.7	83.9	84.4	84.6	84.6	84.8	84.8	84.8	85.1
≥ 2500	41.4	67.8	73.8	78.2	82.1	83.2	84.6	85.3	85.5	86.0	86.2	86.2	86.4	86.4	86.4	86.7
≥ 2000	41.4	68.7	74.9	79.8	84.1	85.3	86.7	87.4	87.6	88.0	88.3	88.3	88.5	88.5	88.5	88.7
≥ 1800	41.4	68.7	74.9	80.2	84.6	85.7	87.1	87.8	88.0	88.5	88.7	88.7	89.0	89.0	89.0	89.2
≥ 1500	41.4	69.4	76.1	81.6	86.4	87.6	89.0	89.7	89.9	90.3	90.6	90.6	90.8	90.8	90.8	91.0
≥ 1200	41.4	71.1	77.7	84.4	89.4	91.0	92.4	93.1	93.3	93.8	94.0	94.0	94.3	94.3	94.3	94.5
≥ 1000	41.4	71.6	78.2	85.5	91.5	93.3	94.9	95.6	95.9	96.3	96.6	96.6	96.8	96.8	96.8	97.1
≥ 900	41.4	70.6	78.2	85.7	91.7	93.6	95.2	95.9	96.1	96.6	96.8	96.8	97.0	97.0	97.0	97.2
≥ 800	41.4	70.8	78.6	86.2	92.2	94.3	95.9	96.6	96.8	97.2	97.5	97.5	97.7	97.7	97.7	97.9
≥ 700	41.4	70.8	78.6	86.2	92.2	94.3	95.9	96.6	96.8	97.2	97.5	97.5	97.7	97.7	97.7	97.9
≥ 600	41.4	70.8	78.6	86.2	92.2	94.3	95.9	96.6	96.8	97.2	97.5	97.5	97.7	97.7	97.7	97.9
≥ 500	41.4	70.8	78.6	86.2	92.4	94.7	96.3	97.5	97.9	98.4	98.6	98.6	98.9	98.9	98.9	99.1
≥ 400	41.4	70.8	78.6	86.2	92.6	94.9	96.6	97.7	98.2	98.6	98.9	98.9	99.1	99.1	99.1	99.3
≥ 300	41.4	70.8	78.6	86.2	92.6	94.9	96.8	97.9	98.4	98.9	99.1	99.1	99.3	99.3	99.3	99.5
≥ 200	41.4	70.8	78.6	86.2	92.6	94.9	96.8	97.9	98.4	98.9	99.3	99.3	99.5	99.5	99.5	99.8
≥ 100	41.4	70.8	78.6	86.2	92.6	94.9	96.8	97.9	98.4	98.9	99.3	99.3	99.5	99.5	99.5	99.8
≥ 0	41.4	70.8	78.6	86.2	92.6	94.9	96.8	97.9	98.4	98.9	99.3	99.3	99.5	99.5	99.5	99.8

TOTAL NUMBER OF OBSERVATIONS 435

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
17127

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,77-81

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

300-2500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	23.9	33.4	35.2	36.9	41.3	41.5	42.8	42.9	43.3	43.7	43.9	44.2	44.2	44.4	44.6	45.0
≥ 20000	24.7	33.9	36.1	37.8	42.2	42.4	44.4	44.6	45.0	45.3	45.5	45.9	45.9	46.1	46.2	46.6
≥ 18000	24.7	33.9	36.1	37.8	42.2	42.4	44.4	44.6	45.0	45.3	45.5	45.9	45.9	46.1	46.2	46.6
≥ 16000	24.7	33.9	36.1	37.8	42.2	42.4	44.4	44.6	45.0	45.3	45.5	45.9	45.9	46.1	46.2	46.6
≥ 14000	24.7	34.1	36.3	38.0	42.4	42.6	44.6	44.8	45.1	45.5	45.7	46.1	46.1	46.2	46.4	46.8
≥ 12000	24.2	34.5	36.9	38.5	42.9	43.1	45.1	45.3	45.7	46.1	46.2	46.6	46.6	46.8	47.0	47.3
≥ 10000	25.1	35.8	38.2	40.0	44.6	44.8	46.8	47.0	47.3	47.7	47.9	48.3	48.3	48.4	48.6	49.0
≥ 9000	25.7	37.1	39.4	41.3	46.1	46.2	48.3	48.4	48.8	49.2	49.4	49.7	49.7	49.9	50.1	50.5
≥ 8000	27.2	40.6	43.7	45.5	50.6	50.8	52.8	53.4	53.8	54.1	54.3	54.7	54.7	54.9	55.0	55.4
≥ 7000	28.3	42.9	46.2	48.4	53.6	53.8	56.0	56.5	56.9	57.2	57.4	57.8	57.8	58.0	58.2	58.5
≥ 6000	29.7	45.1	48.8	51.4	56.7	56.9	59.3	59.8	60.2	60.6	60.7	61.1	61.1	61.3	61.5	61.8
≥ 5000	30.5	46.8	50.5	53.2	58.5	58.7	62.0	62.9	63.3	63.9	64.0	64.4	64.4	64.6	64.8	65.1
≥ 4500	31.7	49.2	52.8	56.1	61.7	62.0	65.5	66.4	66.8	67.3	67.5	67.9	67.9	68.1	68.3	68.6
≥ 4000	32.3	50.3	54.3	58.0	63.5	63.9	67.3	68.3	68.6	69.4	69.5	69.9	69.9	70.3	70.5	70.8
≥ 3500	33.2	51.9	56.0	59.8	65.9	66.4	70.1	71.0	71.6	72.5	72.7	73.0	73.0	73.6	73.8	74.3
≥ 3000	34.9	54.3	58.7	63.3	69.5	70.3	75.0	76.3	76.9	77.8	78.0	78.3	78.3	78.9	79.1	79.8
≥ 2500	35.4	55.0	59.6	64.2	70.8	71.6	76.3	77.6	78.2	79.1	79.3	79.6	79.6	80.2	80.4	81.1
≥ 2000	35.6	56.0	60.9	65.5	72.5	73.4	78.2	79.4	80.0	80.9	81.1	81.5	81.5	82.0	82.2	82.9
≥ 1800	35.8	56.1	61.1	65.7	72.8	73.9	78.7	80.0	80.6	81.5	81.7	82.0	82.0	82.6	82.8	83.5
≥ 1500	35.8	56.7	61.8	66.6	74.7	75.8	80.7	82.0	82.6	83.5	83.7	84.0	84.0	84.6	84.8	85.5
≥ 1200	36.2	58.0	63.7	69.4	78.2	79.4	85.3	86.6	87.2	88.1	88.3	88.6	88.6	89.2	89.4	90.1
≥ 1000	36.2	58.2	64.6	71.0	80.0	81.3	87.5	88.8	89.4	90.3	90.5	90.8	90.8	91.4	91.6	92.3
≥ 900	36.2	58.7	65.3	71.9	81.3	82.9	89.5	90.8	91.4	92.3	92.5	92.8	92.8	93.4	93.6	94.3
≥ 800	36.3	59.1	65.9	72.5	82.4	84.0	90.8	92.1	92.7	93.6	93.8	94.1	94.1	94.7	94.9	95.6
≥ 700	36.3	59.1	65.9	72.7	82.6	84.4	91.2	92.5	93.0	93.9	94.1	94.5	94.5	95.0	95.2	96.0
≥ 600	36.3	59.1	65.9	72.7	82.6	84.4	91.2	92.8	93.4	94.3	94.5	94.9	94.9	95.4	95.6	96.3
≥ 500	36.3	59.1	65.9	72.7	82.8	84.6	91.4	93.4	94.1	95.0	95.2	95.6	95.6	96.1	96.5	97.2
≥ 400	36.3	59.1	65.9	72.7	82.9	85.0	91.7	93.8	94.5	95.4	95.6	96.0	96.0	96.5	96.9	98.2
≥ 300	36.3	59.1	65.9	72.7	82.9	85.1	92.1	94.1	95.2	96.1	96.3	96.7	96.7	97.2	97.6	99.1
≥ 200	36.3	59.1	65.9	72.7	82.9	85.1	92.1	94.1	95.2	96.1	96.3	96.7	96.9	97.6	98.0	99.4
≥ 100	36.3	59.1	65.9	72.7	82.9	85.1	92.1	94.1	95.2	96.1	96.3	96.7	96.9	98.0	98.3	99.8
≥ 0	36.3	59.1	65.9	72.7	82.9	85.1	92.1	94.1	95.2	96.1	96.3	96.7	96.9	98.0	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 545

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
1120

STATION NAME  
SENBACH AB DL

YEARS  
65-68,76-81

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

600-1800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥4	≥0
NO CEILING ≥ 20000	24.7	31.4	34.1	36.1	38.9	40.0	40.8	42.0	42.6	43.1	43.1	43.1	43.3	43.4	43.5	43.9
≥ 18000 ≥ 16000	25.6	32.4	35.4	37.6	40.9	42.2	42.9	44.4	45.1	45.7	45.7	45.7	45.9	46.0	46.1	46.5
≥ 14000 ≥ 12000	25.6	32.5	35.5	37.7	41.0	42.3	43.0	44.5	45.2	45.9	45.9	45.9	46.0	46.1	46.2	46.6
≥ 10000 ≥ 9000	25.7	32.8	35.7	37.9	41.3	42.5	43.3	44.7	45.5	46.1	46.1	46.1	46.2	46.4	46.5	46.9
≥ 8000 ≥ 7000	26.5	33.5	36.6	38.8	42.2	43.4	44.1	45.6	46.4	47.0	47.0	47.0	47.1	47.2	47.3	47.7
≥ 6000 ≥ 5000	27.7	34.9	38.1	40.3	43.6	44.9	45.6	47.1	47.8	48.5	48.5	48.5	48.6	48.7	48.8	49.2
≥ 4500 ≥ 4000	27.9	35.4	38.6	40.8	44.1	45.4	46.1	47.6	48.3	48.9	48.9	48.9	49.1	49.2	49.3	49.7
≥ 3500 ≥ 3000	28.8	37.3	40.8	43.4	47.2	48.5	49.2	50.7	51.4	52.2	52.3	52.3	52.5	52.6	52.9	53.5
≥ 2500 ≥ 2000	30.4	39.7	43.4	46.4	50.6	51.8	52.7	54.1	54.9	55.7	55.9	55.9	56.1	56.4	56.5	57.1
≥ 1800 ≥ 1500	31.5	41.2	44.9	48.2	52.7	54.1	55.1	56.6	57.5	58.3	58.5	58.5	58.7	59.0	59.1	59.8
≥ 1200 ≥ 1000	33.5	43.3	47.1	50.8	55.4	56.9	58.0	59.7	60.6	61.6	61.7	61.7	61.9	62.2	62.3	63.0
≥ 900 ≥ 800	34.2	44.3	48.1	51.9	56.6	58.1	59.3	61.1	61.9	62.9	63.2	63.2	63.4	63.7	63.8	64.5
≥ 700 ≥ 600	35.2	46.1	50.2	54.1	59.1	60.7	62.1	63.8	64.6	65.6	65.9	65.9	66.1	66.4	66.5	67.2
≥ 500 ≥ 400	36.5	47.3	51.4	55.5	60.8	62.4	63.8	65.6	66.5	67.7	68.0	68.1	68.6	68.9	69.0	69.8
≥ 300 ≥ 200	37.7	48.8	53.5	57.8	63.3	64.9	66.4	68.4	69.3	70.6	70.8	71.1	71.6	71.8	71.9	72.9
≥ 100 0	38.6	50.1	55.3	60.0	65.8	67.4	68.9	70.8	71.9	73.2	73.4	73.7	74.2	74.4	74.5	75.5
	38.8	50.9	56.4	61.1	67.2	69.3	70.8	72.8	73.9	75.2	75.4	75.6	76.1	76.4	76.5	77.5
	38.9	51.2	56.7	61.6	67.7	70.0	71.4	73.4	74.5	75.9	76.1	76.4	76.9	77.1	77.3	78.2
	40.0	52.9	59.1	64.3	71.2	73.4	75.0	77.4	78.5	79.9	80.1	80.3	80.8	81.1	81.2	82.2
	40.3	53.9	60.7	66.3	74.3	76.5	78.6	81.3	82.4	83.8	84.1	84.3	84.8	85.0	85.2	86.2
	40.3	54.3	61.4	68.0	76.9	79.4	81.7	84.7	85.9	87.3	87.5	87.8	88.3	88.5	88.6	89.6
	40.4	54.5	61.7	68.4	77.4	79.9	82.4	85.5	86.8	88.1	88.4	88.6	89.1	89.4	89.5	90.5
	40.4	54.5	61.7	68.6	78.2	80.7	83.4	87.0	88.5	89.9	90.1	90.4	90.9	91.1	91.2	92.2
	40.4	54.5	61.9	69.0	79.2	82.0	85.0	89.0	90.6	92.0	92.2	92.5	92.7	93.0	93.3	94.3
	40.4	54.5	61.9	69.0	79.4	82.1	85.2	89.1	90.7	92.2	92.5	92.7	93.3	93.6	93.7	94.7
	40.4	54.5	61.9	69.0	79.6	82.3	85.4	89.5	91.2	92.7	93.0	93.3	93.9	94.2	94.3	95.3
	40.4	54.5	61.9	69.0	80.1	83.2	86.4	91.1	93.1	95.1	95.4	95.8	96.4	97.0	97.2	98.9
	40.4	54.5	61.9	69.0	80.1	83.2	86.4	91.1	93.1	95.2	95.6	95.9	96.5	97.8	97.9	99.6
	40.4	54.5	61.9	69.0	80.1	83.2	86.4	91.1	93.1	95.2	95.6	95.9	96.5	97.8	97.9	99.8
	40.4	54.5	61.9	69.0	80.1	83.2	86.4	91.1	93.1	95.2	95.6	95.9	96.5	97.8	97.9	100.0

TOTAL NUMBER OF OBSERVATIONS 829

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
1120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,76-81

MONTH  
APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING ≥ 20000	24.7	31.7	34.0	36.4	38.1	38.7	38.9	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥ 18000	29.2	36.6	39.0	41.5	43.5	44.2	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 16000	29.3	36.7	39.1	41.6	43.6	44.3	44.5	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 14000	29.5	36.9	39.4	41.8	43.8	44.5	44.7	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
≥ 12000	30.5	37.9	40.5	43.0	45.0	45.6	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 10000	32.4	40.4	43.0	45.5	47.8	48.4	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 9000	32.6	40.5	43.1	45.6	48.0	48.7	48.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥ 8000	33.9	42.5	45.5	48.4	51.2	52.0	52.3	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥ 7000	35.5	44.4	47.5	50.6	53.7	54.5	54.8	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 6000	36.0	45.3	48.4	51.6	54.7	55.5	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 5000	37.1	46.5	49.7	52.8	55.9	56.7	57.3	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥ 4500	38.5	48.0	51.3	54.5	57.9	58.8	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 4000	39.9	49.8	53.4	56.6	60.4	61.4	62.0	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 3500	41.1	51.5	55.1	58.4	62.8	63.9	64.7	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 3000	43.3	54.3	58.2	61.4	66.1	67.2	68.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 2500	45.5	57.5	61.9	65.4	70.4	71.6	72.4	73.0	73.0	73.0	73.0	73.2	73.2	73.2	73.2	73.2
≥ 2000	48.3	61.2	66.3	69.9	74.8	76.2	77.0	77.6	77.6	77.6	77.6	77.7	77.7	77.7	77.7	77.7
≥ 1800	48.5	62.1	67.9	71.6	76.6	78.0	78.7	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.5
≥ 1600	49.4	64.3	71.3	75.2	80.5	81.9	82.8	83.8	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0
≥ 1400	50.2	65.8	74.2	79.1	85.7	87.2	88.3	89.4	89.5	89.7	89.7	89.8	89.8	89.8	89.8	89.8
≥ 1200	50.4	66.7	75.2	80.4	87.7	89.5	90.8	92.1	92.2	92.4	92.4	92.5	92.5	92.5	92.5	92.5
≥ 1000	50.4	66.7	75.3	80.8	88.3	90.2	91.7	93.2	93.3	93.5	93.5	93.6	93.6	93.6	93.6	93.6
≥ 900	50.4	66.7	75.4	81.0	90.2	92.1	93.7	95.3	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0
≥ 800	50.4	66.7	75.4	81.1	90.2	92.1	93.7	95.3	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0
≥ 700	50.4	66.7	75.4	81.1	90.2	92.1	93.7	95.3	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0
≥ 600	50.4	66.7	75.4	81.1	90.2	92.1	93.7	95.3	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0
≥ 500	50.4	66.7	75.4	81.1	90.2	92.1	93.7	95.3	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0
≥ 400	50.4	66.7	75.4	81.1	90.2	92.1	93.7	95.3	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0
≥ 300	50.4	66.7	75.4	81.1	90.2	92.1	93.7	95.3	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0
≥ 200	50.4	66.7	75.4	81.1	90.2	92.1	93.7	95.3	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0
≥ 100	50.4	66.7	75.4	81.1	90.2	92.1	93.7	95.3	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0
≥ 0	50.4	66.7	75.4	81.1	90.2	92.1	93.7	95.3	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0

TOTAL NUMBER OF OBSERVATIONS 894

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
7120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,76-81

MONTH  
APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	27.6	33.0	34.1	34.4	35.0	35.0	35.0	35.0	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
IV 20000	35.3	40.8	42.7	43.2	43.9	43.9	43.9	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IV 18000	35.4	40.9	42.8	43.3	44.1	44.1	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
IV 16000	35.5	41.0	42.9	43.4	44.2	44.2	44.2	44.2	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
IV 14000	35.8	41.3	43.2	43.6	44.4	44.4	44.4	44.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IV 12000	36.3	41.8	43.7	44.5	45.3	45.3	45.3	45.3	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
IV 10000	37.6	43.3	45.2	46.0	46.7	46.7	46.7	46.7	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
IV 9000	38.0	44.1	46.1	46.9	47.6	47.6	47.6	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
IV 8000	39.3	45.7	48.2	49.2	50.0	50.0	50.2	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
IV 7000	40.6	47.1	49.7	50.7	51.5	51.5	51.7	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
IV 6000	41.9	49.0	51.6	52.6	53.4	53.4	53.6	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 5000	42.8	50.9	53.6	54.6	55.4	55.4	55.6	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
IV 4500	44.6	53.6	56.3	57.3	58.1	58.2	58.6	58.7	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
IV 4000	47.6	58.2	61.2	62.2	63.2	63.3	63.9	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
IV 3500	51.2	62.7	66.1	67.3	68.4	68.5	69.1	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 3000	56.6	69.2	72.9	74.3	75.4	75.6	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
IV 2500	59.9	74.8	78.8	80.3	81.4	81.5	82.1	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
IV 2000	61.5	78.1	82.5	84.5	86.2	86.3	86.9	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 1800	61.9	78.7	83.1	85.3	87.1	87.2	87.8	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IV 1500	63.0	80.7	85.2	87.6	89.8	89.9	90.6	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 1200	64.1	82.8	87.7	90.1	93.0	93.4	94.2	94.7	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1000	64.3	83.2	88.2	90.7	93.9	94.4	95.3	95.9	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 900	64.5	83.5	88.8	91.6	95.2	95.7	96.9	97.6	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 800	64.5	83.6	88.9	91.8	95.5	96.1	97.2	98.0	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 700	64.5	83.6	89.1	92.0	96.1	96.6	97.9	98.7	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 600	64.5	83.6	89.2	92.2	96.3	96.9	98.1	99.0	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 500	64.5	83.6	89.2	92.2	96.3	96.9	98.1	99.0	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	64.5	83.6	89.2	92.2	96.3	97.0	98.2	99.1	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 300	64.5	83.6	89.2	92.2	96.3	97.0	98.2	99.1	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	64.5	83.6	89.2	92.2	96.3	97.0	98.2	99.1	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	64.5	83.6	89.2	92.2	96.3	97.0	98.2	99.1	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	64.5	83.6	89.2	92.2	96.3	97.0	98.2	99.1	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 892



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATC WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
7122

STATION NAME  
SENBACH AB DL

YEARS  
65-68, 76-81

MONTH  
APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	30.8	35.0	35.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
IV 20000	38.1	42.5	43.1	43.6	43.6	43.6	43.6	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
IV 18000	38.3	42.8	43.3	43.8	43.8	43.8	43.8	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 16000	38.3	42.8	43.3	43.8	43.8	43.8	43.8	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 14000	38.5	42.9	43.4	43.9	43.9	43.9	43.9	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IV 12000	39.1	43.8	44.3	44.8	44.8	44.8	44.8	44.9	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
IV 10000	40.8	45.6	46.2	46.6	46.6	46.6	46.6	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IV 9000	41.9	46.7	47.3	47.9	47.9	47.9	47.9	48.0	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IV 8000	44.8	50.3	50.9	51.8	51.8	51.8	51.9	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
IV 7000	46.8	52.9	53.5	54.5	54.8	54.8	54.9	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
IV 6000	49.3	56.4	57.0	58.0	58.3	58.3	58.4	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
IV 5000	50.8	58.6	59.2	60.3	60.5	60.5	60.6	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
IV 4500	52.9	61.8	62.6	63.9	64.3	64.3	64.4	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
IV 4000	57.4	67.1	68.1	69.5	69.8	69.8	69.9	70.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
IV 3500	61.8	72.7	74.0	75.5	76.2	76.2	76.4	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 3000	66.4	78.5	79.8	81.6	82.6	82.6	82.7	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
IV 2500	68.6	81.2	82.5	84.4	85.6	85.6	85.9	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 2000	69.8	83.3	84.7	87.1	88.3	88.3	88.6	89.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IV 1800	69.8	83.3	84.7	87.7	88.9	88.9	89.1	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 1500	70.4	85.1	87.0	90.4	91.7	92.1	92.4	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 1200	70.7	86.2	88.9	92.4	93.9	94.3	94.7	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 1000	70.9	86.7	89.4	93.3	95.0	95.6	96.0	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 900	70.9	86.7	89.4	93.4	95.2	95.8	96.3	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 800	71.4	87.1	89.9	94.7	95.9	96.5	96.9	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 700	71.4	87.2	90.3	94.6	96.5	97.1	97.5	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 600	71.4	87.2	90.3	94.6	96.8	97.4	98.0	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 500	71.4	87.2	90.4	94.7	97.1	97.6	98.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	71.4	87.2	90.4	94.7	97.1	97.6	98.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	71.4	87.2	90.4	94.7	97.1	97.6	98.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	71.4	87.2	90.4	94.7	97.1	97.6	98.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	71.4	87.2	90.4	94.7	97.1	97.6	98.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	71.4	87.2	90.4	94.7	97.1	97.6	98.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 684

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,76-81

MONTH  
APR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	≥¼	≥0
NO CEILING	37.4	43.6	44.3	44.4	44.6	44.6	44.6	44.6	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥20000	43.6	49.9	51.1	51.3	51.4	51.4	51.4	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥18000	43.7	50.0	51.3	51.4	51.5	51.5	51.5	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥16000	43.9	50.3	51.5	51.6	51.8	51.8	51.8	51.8	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
≥14000	44.3	50.6	51.9	52.0	52.1	52.1	52.1	52.1	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥12000	45.2	51.8	53.0	53.2	53.3	53.3	53.3	53.3	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥10000	47.9	54.7	55.9	56.1	56.2	56.2	56.3	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥9000	49.0	56.1	57.3	57.4	57.6	57.6	57.7	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥8000	52.5	60.5	62.0	62.5	63.0	63.0	63.1	63.5	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥7000	55.3	64.8	66.4	66.9	67.6	67.6	67.9	68.3	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥6000	56.7	67.4	69.2	69.7	70.3	70.3	70.7	71.1	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥5000	58.6	70.1	72.1	72.6	73.2	73.2	73.6	74.0	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥4500	60.5	72.2	74.7	75.3	75.9	75.9	76.3	76.6	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥4000	62.9	75.3	78.1	78.5	79.3	79.3	79.7	80.1	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥3500	65.1	78.3	81.4	82.1	82.8	82.8	83.2	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥3000	67.3	81.3	84.6	85.2	86.0	86.0	86.5	86.9	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥2500	68.2	83.3	86.7	87.4	88.1	88.1	88.6	89.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥2000	68.7	84.5	88.1	89.0	89.8	89.8	90.3	90.9	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥1800	68.7	84.6	88.3	89.6	90.4	90.4	90.9	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥1500	69.3	85.7	89.5	91.4	92.8	92.8	93.4	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥1200	69.3	85.9	90.0	92.6	94.1	94.1	94.7	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥1000	69.4	86.1	90.5	93.1	95.2	95.2	96.0	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥900	69.4	86.4	90.9	93.8	96.0	96.0	96.7	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥800	69.6	86.5	91.0	93.9	96.1	96.1	96.8	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥700	69.6	86.5	91.3	94.3	96.8	97.0	97.7	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥600	69.6	86.5	91.3	94.3	96.8	97.0	97.7	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥500	69.6	86.5	91.3	94.4	97.1	97.3	98.1	98.7	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7
≥400	69.6	86.5	91.3	94.4	97.1	97.3	98.1	98.7	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥300	69.6	86.5	91.3	94.4	97.1	97.3	98.1	98.7	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥200	69.6	86.5	91.3	94.4	97.1	97.3	98.1	98.7	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥100	69.6	86.5	91.3	94.4	97.1	97.3	98.1	98.7	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0
0	69.6	86.5	91.3	94.4	97.1	97.3	98.1	98.7	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 792

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 7120

STATION NAME SEMBACH AB DL

YEARS 65-68, 76-81

MONTH APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	47.1	49.7	51.9	53.5	54.3	54.3	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 20000	43.2	52.9	55.4	57.1	58.1	58.2	58.2	58.5	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 18000	43.2	52.9	55.4	57.1	58.1	58.2	58.2	58.5	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 16000	43.2	52.9	55.4	57.1	58.1	58.2	58.2	58.5	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 14000	43.2	52.9	55.4	57.1	58.1	58.2	58.2	58.5	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 12000	44.0	53.8	56.3	57.9	59.0	59.1	59.1	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 10000	45.1	55.4	57.9	59.6	60.6	60.7	60.7	61.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 9000	46.3	57.1	59.7	61.3	62.4	62.5	62.5	62.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 8000	49.7	62.1	64.7	66.5	67.5	67.6	67.6	68.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 7000	50.6	64.9	67.8	69.6	70.6	70.7	70.7	71.2	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 6000	51.9	67.4	70.3	72.2	73.5	74.0	74.3	74.7	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.1
≥ 5000	53.2	69.6	72.6	75.0	76.3	76.9	77.2	77.6	77.9	77.9	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4500	54.4	70.7	74.1	76.6	78.1	78.7	79.0	79.4	79.7	79.7	79.9	79.9	79.9	79.9	79.9	79.9
≥ 4000	55.7	72.9	76.8	79.4	81.5	82.1	82.4	82.8	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3500	56.3	74.6	78.4	81.0	83.2	84.0	84.3	84.7	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1
≥ 3000	57.5	76.2	80.1	82.8	85.0	86.0	86.5	86.9	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.4
≥ 2500	58.1	78.1	82.1	84.9	87.1	88.1	88.7	89.1	89.4	89.4	89.6	89.6	89.6	89.6	89.6	89.6
≥ 2000	58.8	79.4	83.8	86.8	89.0	90.0	90.7	91.3	91.6	91.6	91.8	91.8	91.8	91.8	91.8	91.8
≥ 1800	58.8	79.4	84.0	87.5	89.7	90.7	91.5	92.1	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5
≥ 1500	59.4	80.6	85.1	89.3	91.6	92.6	93.7	94.3	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1200	59.4	81.0	85.9	90.3	93.1	94.1	95.1	95.7	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1000	59.6	81.5	86.5	91.0	94.1	95.3	96.3	96.9	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	59.6	81.5	86.5	91.3	94.9	96.0	97.1	97.6	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800	59.6	81.5	86.5	91.3	95.0	96.2	97.2	97.8	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2
≥ 700	59.6	81.5	86.5	91.5	95.6	96.8	97.8	98.5	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	59.7	81.6	86.6	91.6	95.7	97.1	98.2	99.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	59.7	81.6	86.6	91.6	95.7	97.1	98.2	99.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	59.7	81.6	86.6	91.6	95.7	97.2	98.4	99.1	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	59.7	81.6	86.6	91.6	95.7	97.2	98.5	99.3	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	59.7	81.6	86.6	91.6	95.7	97.2	98.7	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	59.7	81.6	86.6	91.6	95.7	97.2	98.7	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	59.7	81.6	86.6	91.6	95.7	97.2	98.7	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 682

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7127  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

APP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	29.9	36.9	38.6	39.8	41.2	41.5	41.8	42.0	42.2	42.4	42.4	42.4	42.4	42.5	42.5	42.6
≥ 20000	34.2	41.4	43.5	44.8	46.4	46.7	47.1	47.4	47.7	47.8	47.9	47.9	47.9	48.0	48.0	48.1
≥ 18000	34.3	41.5	43.6	44.9	46.5	46.8	47.2	47.5	47.8	47.9	48.0	48.0	48.0	48.1	48.1	48.2
≥ 16000	34.3	41.6	43.6	44.9	46.6	46.9	47.2	47.6	47.9	48.0	48.0	48.0	48.1	48.1	48.2	48.3
≥ 14000	34.5	41.8	43.8	45.1	46.8	47.1	47.4	47.8	48.0	48.2	48.2	48.2	48.3	48.3	48.3	48.4
≥ 12000	35.2	42.6	44.7	46.0	47.7	48.0	48.4	48.7	49.0	49.1	49.1	49.2	49.2	49.2	49.3	49.4
≥ 10000	36.6	44.4	46.5	47.9	49.6	49.9	50.3	50.7	50.9	51.1	51.1	51.1	51.2	51.2	51.2	51.3
≥ 9000	37.3	45.4	47.6	49.0	50.8	51.1	51.4	51.8	52.0	52.2	52.2	52.3	52.3	52.3	52.4	52.5
≥ 8000	39.4	48.7	51.2	52.9	54.8	55.1	55.6	56.1	56.4	56.5	56.6	56.6	56.7	56.7	56.7	56.9
≥ 7000	41.7	51.2	53.9	55.7	57.8	58.2	58.7	59.2	59.5	59.6	59.7	59.7	59.8	59.8	59.8	60.0
≥ 6000	42.2	53.4	56.1	58.2	60.4	60.8	61.4	61.9	62.2	62.4	62.5	62.5	62.6	62.6	62.6	62.8
≥ 5000	43.7	55.4	58.2	60.4	62.6	63.1	63.8	64.4	64.7	64.9	65.0	65.0	65.1	65.1	65.2	65.3
≥ 4500	45.2	57.4	60.4	62.7	65.1	65.6	66.4	67.0	67.3	67.5	67.6	67.6	67.7	67.7	67.7	67.9
≥ 4000	47.2	60.2	63.5	65.9	68.5	69.0	69.8	70.4	70.7	71.0	71.1	71.1	71.1	71.2	71.2	71.4
≥ 3500	49.2	63.1	66.5	69.0	71.8	72.4	73.3	74.0	74.3	74.6	74.6	74.7	74.8	74.9	74.9	75.1
≥ 3000	51.9	66.5	70.2	72.9	75.8	76.5	77.5	78.3	78.6	78.9	79.0	79.0	79.1	79.2	79.2	79.5
≥ 2500	53.4	69.0	72.9	75.7	78.9	79.5	80.7	81.4	81.7	82.0	82.1	82.2	82.3	82.4	82.4	82.6
≥ 2000	54.9	70.9	75.2	78.3	81.6	82.4	83.5	84.4	84.7	85.0	85.1	85.2	85.2	85.3	85.4	85.6
≥ 1800	54.6	71.2	75.6	79.0	82.4	83.2	84.4	85.2	85.5	85.8	85.9	86.0	86.1	86.2	86.2	86.4
≥ 1500	55.3	72.7	77.6	81.3	85.1	86.0	87.3	88.2	88.6	88.9	89.0	89.1	89.2	89.3	89.3	89.5
≥ 1200	55.7	73.8	79.3	83.6	88.0	89.0	90.5	91.5	91.9	92.2	92.3	92.4	92.5	92.6	92.6	92.8
≥ 1000	55.8	74.2	80.0	84.6	89.6	90.7	92.3	93.4	93.8	94.2	94.3	94.4	94.5	94.6	94.6	94.8
≥ 900	55.8	74.4	80.2	85.1	90.3	91.5	93.2	94.4	94.8	95.2	95.3	95.4	95.5	95.5	95.6	95.8
≥ 800	55.9	74.6	80.4	85.4	91.0	92.2	94.0	95.3	95.8	96.2	96.3	96.4	96.4	96.5	96.6	96.8
≥ 700	55.9	74.6	80.6	85.7	91.6	92.9	94.8	96.2	96.6	97.0	97.1	97.2	97.3	97.4	97.4	97.6
≥ 600	56.0	74.6	80.6	85.7	91.7	93.1	95.0	96.5	96.9	97.4	97.5	97.6	97.7	97.8	97.8	98.0
≥ 500	56.0	74.6	80.6	85.8	91.9	93.2	95.2	96.7	97.4	97.8	98.0	98.1	98.3	98.3	98.4	98.6
≥ 400	56.0	74.6	80.6	85.8	92.0	93.4	95.4	97.0	97.7	98.3	98.5	98.7	98.8	98.9	99.0	99.3
≥ 300	56.0	74.6	80.6	85.8	92.0	93.4	95.5	97.1	97.9	98.6	98.8	98.9	99.1	99.2	99.3	99.7
≥ 200	56.0	74.6	80.6	85.8	92.0	93.4	95.5	97.2	97.9	98.6	98.9	99.0	99.1	99.4	99.5	99.9
≥ 100	56.0	74.6	80.6	85.8	92.0	93.4	95.5	97.2	97.9	98.6	98.9	99.0	99.1	99.4	99.5	99.9
≥ 0	56.0	74.6	80.6	85.8	92.0	93.4	95.5	97.2	97.9	98.6	98.9	99.0	99.1	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 5931

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION SENBACH AB DL

65-68,76-77,79-80

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING	31.9	46.0	48.7	50.8	52.1	52.1	52.3	52.3	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.9
≥ 20000	34.7	48.1	50.8	52.9	54.8	54.8	55.0	55.3	55.3	55.7	55.7	55.7	55.7	55.7	55.7	56.3
≥ 18000	34.7	48.1	50.8	52.9	54.8	54.8	55.0	55.3	55.3	55.7	55.7	55.7	55.7	55.7	55.7	56.3
≥ 16000	34.7	48.1	50.8	52.9	54.8	54.8	55.0	55.3	55.3	55.7	55.7	55.7	55.7	55.7	55.7	56.3
≥ 14000	34.7	48.1	50.8	52.9	54.8	54.8	55.0	55.3	55.3	55.7	55.7	55.7	55.7	55.7	55.7	56.3
≥ 12000	35.3	49.6	52.3	54.4	56.3	56.3	56.5	56.7	56.7	57.1	57.1	57.1	57.1	57.1	57.1	57.3
≥ 10000	36.1	51.5	54.2	56.3	58.2	58.2	58.4	58.6	58.6	59.0	59.0	59.0	59.0	59.0	59.2	59.9
≥ 9000	37.8	54.2	57.1	59.2	61.1	61.1	61.3	61.6	61.6	62.0	62.0	62.0	62.0	62.0	62.2	62.8
≥ 8000	40.1	60.7	63.7	65.8	68.1	68.1	68.5	68.7	68.7	69.1	69.1	69.1	69.1	69.1	69.3	70.7
≥ 7000	41.0	63.2	66.4	68.5	71.6	71.6	72.1	72.3	72.5	72.9	72.9	72.9	72.9	72.9	73.1	73.7
≥ 6000	42.2	64.9	68.3	70.6	73.9	73.9	74.4	74.6	74.8	75.4	75.4	75.4	75.4	75.4	75.6	75.3
≥ 5000	44.3	68.1	71.6	74.4	77.9	78.6	79.0	79.2	79.4	80.0	80.0	80.0	80.0	80.0	80.3	80.9
≥ 4500	45.2	70.2	73.9	76.7	80.3	80.9	81.3	81.5	81.7	82.4	82.4	82.4	82.4	82.4	82.6	83.2
≥ 4000	46.2	71.6	75.8	79.4	83.2	84.0	84.9	85.1	85.3	85.9	85.9	85.9	85.9	85.9	86.1	86.8
≥ 3500	46.6	72.3	76.9	80.9	85.1	85.9	86.8	87.0	87.2	87.8	87.8	87.8	87.8	87.8	88.0	86.7
≥ 3000	47.3	73.7	78.4	82.4	86.6	87.4	88.2	88.4	88.7	89.3	89.3	89.3	89.3	89.3	89.5	90.1
≥ 2500	47.5	74.8	79.6	83.8	88.0	88.9	89.7	89.9	90.1	90.8	90.8	90.8	90.8	90.8	91.0	91.6
≥ 2000	47.9	76.7	81.9	86.1	90.3	91.2	92.0	92.2	92.4	93.1	93.1	93.1	93.1	93.1	93.3	93.9
≥ 1800	47.9	76.9	82.1	86.3	90.5	91.4	92.2	92.4	92.6	93.3	93.3	93.3	93.3	93.3	93.5	94.1
≥ 1500	48.3	77.3	82.6	86.8	91.6	92.4	93.3	93.5	93.7	94.3	94.3	94.3	94.3	94.3	94.5	95.2
≥ 1200	48.3	77.7	83.2	88.0	92.9	93.7	94.5	95.0	95.2	95.8	95.8	95.8	95.8	95.8	96.0	96.6
≥ 1000	48.3	77.9	83.4	88.2	93.3	94.1	95.0	95.4	95.6	96.2	96.2	96.2	96.2	96.2	96.4	97.1
≥ 900	48.3	77.9	83.8	88.7	93.9	94.7	95.8	96.2	96.4	97.1	97.1	97.1	97.1	97.1	97.3	97.9
≥ 800	48.3	77.9	83.8	88.7	94.1	95.2	96.2	96.6	96.8	97.5	97.5	97.5	97.5	97.5	97.7	98.3
≥ 700	48.3	77.9	83.8	88.7	94.3	95.4	96.4	96.8	97.1	97.7	97.7	97.7	97.7	97.7	97.9	98.5
≥ 600	48.3	77.9	83.8	88.7	94.3	95.4	96.4	96.8	97.1	97.7	97.7	97.7	97.7	97.7	97.9	98.5
≥ 500	48.3	77.9	83.8	88.7	94.3	95.4	96.4	97.1	97.3	97.9	97.9	97.9	97.9	97.9	98.1	98.7
≥ 400	48.3	77.9	83.8	88.7	94.3	95.4	96.6	97.3	97.5	98.1	98.1	98.1	98.1	98.1	98.3	98.9
≥ 300	48.3	77.9	83.8	88.7	94.3	95.4	96.6	97.3	97.5	98.1	98.3	98.3	98.3	98.3	98.5	99.2
≥ 200	48.3	77.9	83.8	88.7	94.3	95.4	96.6	97.3	97.5	98.1	98.5	98.5	98.5	98.5	98.9	99.8
≥ 100	48.3	77.9	83.8	88.7	94.3	95.4	96.6	97.3	97.5	98.1	98.5	98.5	98.5	98.5	99.2	100.0
≥ 0	48.3	77.9	83.8	88.7	94.3	95.4	96.6	97.3	97.5	98.1	98.5	98.5	98.5	98.5	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 975

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 17127

STATION NAME SEMBACH AB DL

YEARS 65-68,77-81

MONTH MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.) 1300-1500

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	23.8	37.3	40.2	41.5	43.7	43.9	44.7	45.1	45.3	45.4	45.9	46.1	46.3	46.5	47.2	47.8
≥ 20000	24.4	38.7	40.9	42.1	44.6	44.7	45.8	46.3	46.5	46.6	47.2	47.3	47.5	47.7	48.4	49.1
IN 18000	24.5	38.2	41.1	42.3	44.7	44.9	45.9	46.5	46.6	46.8	47.3	47.5	47.7	47.8	48.5	49.2
IN 16000	24.5	38.2	41.1	42.3	44.7	44.9	45.9	46.5	46.6	46.8	47.3	47.5	47.7	47.8	48.5	49.2
IN 14000	24.5	38.2	41.1	42.3	44.7	44.9	45.9	46.5	46.6	46.8	47.3	47.5	47.7	47.8	48.5	49.2
IN 12000	24.7	38.3	41.3	42.5	44.9	45.1	46.1	46.6	46.8	47.0	47.5	47.7	47.8	48.0	48.7	49.4
IN 10000	26.1	40.2	43.4	44.6	47.3	47.5	48.5	49.2	49.4	49.6	50.1	50.4	50.6	50.8	51.5	52.2
IN 9000	27.5	42.3	45.6	47.0	49.7	49.9	50.9	51.6	51.8	52.0	52.5	52.8	53.0	53.2	53.9	54.6
IN 8000	28.8	46.3	49.7	51.3	54.2	54.4	55.6	56.3	56.5	56.8	57.5	57.9	58.0	58.2	59.1	60.1
IN 7000	31.3	50.8	54.6	56.5	59.6	59.8	61.5	62.2	62.3	63.0	63.7	64.1	64.2	64.4	65.3	66.5
IN 6000	32.6	53.2	57.2	59.1	62.5	62.7	64.6	65.3	65.5	66.1	67.0	67.4	67.5	67.7	68.6	69.9
IN 5000	34.4	55.8	60.4	62.7	66.1	66.3	68.2	68.9	69.1	69.8	70.6	71.0	71.2	71.3	72.2	73.6
IN 4500	35.8	58.0	62.9	65.3	66.7	68.9	70.8	71.5	71.7	72.4	73.2	73.6	73.7	73.9	74.8	76.2
IN 4000	35.9	58.9	64.1	66.8	70.5	70.6	72.5	73.2	73.4	74.1	75.0	75.3	75.5	75.6	76.5	77.9
IN 3500	36.1	59.6	64.8	68.2	72.5	72.7	74.6	75.3	75.5	76.2	77.0	77.4	77.5	77.7	78.6	80.0
IN 3000	37.5	61.1	66.3	69.8	74.1	74.3	76.2	76.9	77.0	77.7	78.6	78.9	79.1	79.3	80.1	81.5
IN 2500	37.5	61.1	66.3	69.8	74.6	75.0	76.9	77.5	77.7	78.4	79.3	79.6	79.8	80.0	80.8	82.2
IN 2000	38.2	63.4	69.3	73.1	78.2	78.8	80.7	81.5	81.7	82.4	83.2	83.6	83.8	83.9	84.8	86.2
IN 1800	38.9	64.1	69.9	73.7	79.1	79.6	81.5	82.4	82.6	83.2	84.1	84.5	84.6	84.8	85.7	87.1
IN 1500	39.6	65.8	72.4	76.2	81.9	82.4	84.5	85.3	85.7	86.4	87.2	87.6	87.7	87.9	88.8	90.2
IN 1200	39.9	67.2	73.9	78.4	84.5	85.1	87.6	88.4	88.8	89.5	90.3	90.7	90.8	91.0	91.9	93.3
IN 1000	40.2	68.2	75.1	79.6	85.7	86.5	88.9	89.8	90.2	90.8	91.7	92.1	92.2	92.4	93.3	94.6
IN 900	40.4	68.6	75.5	80.0	86.0	86.9	89.5	90.3	90.7	91.4	92.2	92.6	92.7	92.9	93.8	95.2
IN 800	40.4	68.6	75.5	80.1	86.4	87.2	89.8	90.7	91.0	91.7	92.6	92.9	93.1	93.3	94.1	95.5
IN 700	40.4	68.6	75.5	80.3	86.9	87.9	90.5	91.4	91.7	92.4	93.3	93.6	93.8	94.0	94.8	96.2
IN 600	40.4	68.6	75.5	80.3	87.0	88.1	90.8	92.1	92.4	93.3	94.1	94.5	94.6	94.8	95.7	97.1
IN 500	40.4	68.6	75.5	80.3	87.2	88.3	91.4	92.6	92.9	93.8	94.6	95.0	95.2	95.3	96.2	97.6
IN 400	40.4	68.6	75.5	80.3	87.4	88.4	91.5	92.7	93.1	94.0	94.8	95.2	95.3	95.5	96.7	98.1
IN 300	40.4	68.6	75.5	80.3	87.4	88.4	91.5	92.7	93.1	94.0	94.8	95.2	95.3	95.5	96.9	98.6
IN 200	40.4	68.6	75.5	80.3	87.4	88.4	91.5	92.9	93.3	94.1	95.0	95.3	95.5	96.2	97.6	99.8
IN 100	40.4	68.6	75.5	80.3	87.4	88.4	91.5	92.9	93.3	94.1	95.0	95.3	95.5	96.2	97.8	100.0
IN 0	40.4	68.6	75.5	80.3	87.4	88.4	91.5	92.9	93.3	94.1	95.0	95.3	95.5	96.2	97.8	100.0

TOTAL NUMBER OF OBSERVATIONS 579

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
1120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68, 76-81

MONTH  
MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)  
1640-2800

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING ≥ 20000	26.7	34.5	36.4	37.3	38.8	39.5	39.8	39.9	40.1	40.6	40.8	40.8	41.0	41.2	41.7	42.2
IN 18000	28.6	36.6	38.6	39.8	41.7	42.4	42.8	43.0	43.3	43.9	44.1	44.1	44.2	44.5	45.1	45.5
IN 16000	28.6	36.6	38.6	39.8	41.7	42.4	42.8	43.0	43.3	43.9	44.1	44.1	44.2	44.5	45.1	45.5
IN 14000	28.7	36.7	38.7	39.9	41.8	42.5	42.9	43.1	43.4	44.0	44.2	44.2	44.3	44.6	45.2	45.7
IN 12000	29.3	37.6	39.5	40.7	42.8	43.5	43.9	44.1	44.3	44.9	45.2	45.2	45.3	45.5	46.1	46.6
IN 10000	31.0	40.4	42.4	43.9	46.4	47.1	47.5	48.1	48.3	48.9	49.2	49.2	49.3	49.5	50.1	50.6
IN 9000	31.9	42.0	44.2	45.8	48.6	49.3	49.6	50.2	50.5	51.1	51.3	51.3	51.4	51.7	52.3	52.8
IN 8000	33.7	45.5	47.7	49.5	52.8	53.6	54.0	54.8	55.2	55.9	56.1	56.1	56.3	56.6	57.2	57.8
IN 7000	36.1	48.9	51.7	53.6	57.1	58.0	58.4	59.3	59.6	60.5	60.7	60.7	60.8	61.3	61.9	62.5
IN 6000	37.5	50.8	54.0	56.1	59.8	60.7	61.2	62.0	62.4	63.4	63.6	63.6	63.7	64.2	64.8	65.4
IN 5000	38.7	52.8	56.1	58.7	62.4	63.4	64.0	64.8	65.2	66.1	66.4	66.4	66.5	67.0	67.6	68.2
IN 4500	39.8	54.8	58.2	60.8	64.8	65.8	66.4	67.2	67.6	68.6	68.8	68.8	68.9	69.4	70.0	70.6
IN 4000	41.1	56.5	60.1	62.9	67.1	68.1	68.7	69.5	70.0	71.0	71.2	71.2	71.3	71.8	72.4	73.0
IN 3500	42.0	58.1	61.7	64.7	69.2	70.2	70.8	71.7	72.3	73.3	73.5	73.5	73.6	74.1	74.7	75.3
IN 3000	43.9	60.0	63.9	66.9	71.7	72.9	73.5	74.5	75.1	76.0	76.3	76.3	76.4	76.9	77.5	78.1
IN 2500	44.3	60.8	65.1	68.1	73.3	74.5	75.2	76.1	76.9	77.8	78.1	78.2	78.3	78.8	79.4	80.0
IN 2000	45.1	62.4	66.9	70.2	75.5	76.7	77.5	78.4	79.2	80.1	80.4	80.5	80.6	81.1	81.7	82.3
IN 1800	45.3	62.9	67.5	71.1	76.5	77.7	78.4	79.4	80.1	81.1	81.3	81.4	81.6	82.0	82.7	83.3
IN 1500	46.5	65.3	70.1	74.1	80.0	81.2	81.9	83.0	83.7	84.7	84.9	85.1	85.2	85.7	86.3	86.9
IN 1200	47.5	67.1	72.4	76.9	83.6	84.8	85.7	86.7	87.6	88.6	88.8	88.9	89.0	89.5	90.1	90.7
IN 1000	47.6	67.7	73.4	78.0	84.9	86.1	87.1	88.2	89.0	90.0	90.2	90.4	90.5	91.1	91.7	92.3
IN 900	48.0	68.4	74.2	78.8	85.8	87.0	88.1	89.2	90.0	91.0	91.4	91.6	91.7	92.3	92.9	93.5
IN 800	48.1	68.7	74.6	79.2	86.1	87.3	88.6	89.6	90.5	91.6	92.2	92.3	92.4	93.0	93.6	94.2
IN 700	48.2	69.0	75.2	79.9	87.0	88.3	89.5	90.6	91.7	93.0	93.6	93.7	93.9	94.6	95.2	95.8
IN 600	48.4	69.3	75.4	80.2	87.7	89.0	90.2	91.6	92.7	94.1	94.7	94.8	94.9	95.7	96.3	96.9
IN 500	48.7	69.5	75.7	80.5	88.1	89.4	90.6	92.2	93.3	94.7	95.3	95.4	95.5	96.3	96.9	97.5
IN 400	48.7	69.5	75.7	80.5	88.2	89.5	90.8	92.7	93.9	95.4	96.0	96.1	96.3	97.0	97.6	98.2
IN 300	48.7	69.5	75.7	80.5	88.2	89.5	91.0	92.8	94.0	95.8	96.5	96.7	96.9	97.7	98.3	99.0
IN 200	48.7	69.5	75.7	80.5	88.2	89.5	91.0	92.8	94.0	95.9	96.7	97.0	97.2	98.1	98.7	99.9
IN 100	48.7	69.5	75.7	80.5	88.2	89.5	91.0	92.8	94.0	95.9	96.7	97.0	97.2	98.1	98.7	100.0
IN 0	48.7	69.5	75.7	80.5	88.2	89.5	91.0	92.8	94.0	95.9	96.7	97.0	97.2	98.1	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 830

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 120 SEMBACH AB DL

65-68,76-81

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1960-1961  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING ≥ 20000	32.4	38.7	47.1	40.6	41.2	41.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
≥ 18000	36.4	42.9	44.2	45.1	45.7	45.9	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 16000	36.8	43.2	44.6	45.4	46.0	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 14000	36.8	43.2	44.6	45.4	46.0	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 12000	36.8	43.2	44.6	45.4	46.0	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 10000	37.4	44.1	45.7	46.5	47.2	47.4	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 9000	38.9	46.0	47.6	48.6	49.3	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 8000	39.6	47.3	49.2	50.5	51.2	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 7000	42.0	50.9	53.1	54.4	55.4	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 6000	44.2	53.8	56.3	57.6	58.7	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 5000	44.7	54.8	57.3	58.8	59.9	60.2	60.3	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 4500	45.6	56.0	58.8	60.5	61.9	62.1	62.2	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 4000	47.1	58.0	61.8	62.7	64.1	64.3	64.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 3500	48.3	59.6	62.5	64.5	66.0	66.2	66.3	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 3000	51.4	63.7	66.6	68.8	70.5	70.7	70.8	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 2500	54.9	68.5	71.7	73.9	75.7	76.0	76.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 2000	57.7	72.3	75.7	78.0	80.1	80.4	80.5	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 1800	60.4	75.9	79.4	81.9	84.1	84.4	84.5	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 1500	60.9	76.7	80.4	83.1	85.3	85.6	85.7	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 1200	62.0	79.3	83.2	86.2	88.6	88.9	89.5	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 1000	62.8	81.0	85.4	88.7	91.4	91.8	92.4	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 900	63.6	82.1	86.9	90.3	93.4	93.7	94.4	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 800	63.7	82.3	87.7	91.3	94.4	94.7	95.4	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 700	64.1	82.9	88.4	92.2	95.4	95.7	96.4	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 600	64.2	83.0	88.8	92.6	95.9	96.3	97.0	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500	64.2	83.1	89.0	92.9	96.4	96.7	97.5	98.1	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400	64.4	83.2	89.2	93.1	96.7	97.0	97.8	98.8	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	64.4	83.2	89.2	93.1	96.7	97.0	97.8	98.9	99.1	99.7	99.8	99.9	99.9	99.9	99.9	99.9
≥ 200	64.4	83.2	89.2	93.1	96.7	97.0	97.8	98.9	99.1	99.7	99.8	99.9	100.0	100.0	100.0	100.0
≥ 100	64.4	83.2	89.2	93.1	96.7	97.0	97.8	98.9	99.1	99.7	99.8	99.9	100.0	100.0	100.0	100.0
≥ 0	64.4	83.2	89.2	93.1	96.7	97.0	97.8	98.9	99.1	99.7	99.8	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 111



AD-A122 711

SENBACH AB GERMANY. (WEST) REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBS. (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A. 28 JUL 82  
USAFETAC/OS-82-045 SBI-AD-880 204 P/O 4/2

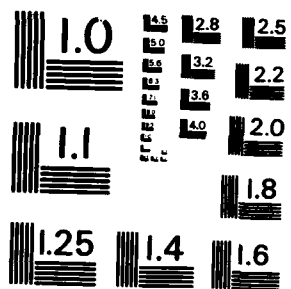
315

UNCLASSIFIED

20 JUL 02

F/G 4/2

NL



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
17120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68,76-81

MONTH  
MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)  
1200-1400

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/10	≥0	≥0
NO CEILING	31.8	37.9	38.1	38.4	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 20000	36.1	42.3	42.5	42.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 18000	36.5	42.7	43.0	43.2	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
IV 16000	36.5	42.7	43.0	43.2	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
IV 14000	36.8	43.1	43.3	43.5	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
IV 12000	37.3	43.5	43.7	43.9	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
IV 10000	38.7	45.4	45.6	45.8	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 9000	40.1	46.9	47.2	47.4	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
IV 8000	44.0	51.7	52.3	52.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IV 7000	45.9	53.9	54.5	54.8	55.1	55.1	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
IV 6000	47.0	56.1	56.8	57.0	57.4	57.4	57.5	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
IV 5000	48.3	57.8	58.7	58.9	59.2	59.2	59.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
IV 4500	51.5	61.6	62.8	63.1	63.4	63.4	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
IV 4000	56.5	67.7	69.1	69.3	69.6	69.6	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 3500	61.9	74.4	76.0	76.2	76.5	76.5	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 3000	66.7	79.9	81.5	82.0	82.5	82.5	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
IV 2500	69.1	84.0	85.7	86.2	87.0	87.0	87.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 2000	71.1	87.8	89.5	90.1	91.1	91.1	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
IV 1800	71.4	88.0	89.8	90.5	91.6	91.6	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 1500	72.3	89.4	91.6	92.2	93.3	93.4	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
IV 1200	73.1	90.9	93.7	94.3	95.5	95.6	96.0	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 1000	73.1	90.9	94.0	94.6	96.1	96.2	96.6	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 900	73.1	90.9	94.0	94.8	96.8	96.9	97.4	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 800	73.1	91.1	94.2	95.0	97.0	97.2	97.6	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 700	73.2	91.3	94.4	95.2	97.3	97.4	97.8	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 600	73.2	91.3	94.4	95.2	97.4	97.5	98.0	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 500	73.3	91.4	94.6	95.4	97.8	97.9	98.6	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 400	73.3	91.4	94.6	95.4	97.9	98.0	98.7	99.2	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
IV 300	73.3	91.4	94.6	95.4	97.9	98.0	98.7	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	73.3	91.4	94.6	95.4	97.9	98.0	98.7	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	73.3	91.4	94.6	95.4	97.9	98.0	98.7	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	73.3	91.4	94.6	95.4	97.9	98.0	98.7	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 915

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
120

STATION NAME  
SEMBACH AB DL

YEARS  
65-68, 76-81

MONTH  
MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)  
1500-1700

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	33.8	38.9	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 20000	40.8	46.3	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IN 18000	41.3	46.6	46.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IN 16000	41.7	46.6	46.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IN 14000	41.4	46.9	47.3	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
IN 12000	42.7	48.3	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IN 10000	46.5	52.3	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IN 9000	47.8	53.7	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IN 8000	50.4	57.5	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IN 7000	55.1	63.7	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IN 6000	57.8	67.3	68.2	68.3	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
IN 5000	60.9	71.1	72.3	72.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
IN 4500	63.7	74.3	75.5	75.8	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
IN 4000	67.8	79.5	80.7	81.2	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
IN 3500	70.5	83.1	84.5	84.9	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IN 3000	73.3	86.6	88.0	88.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
IN 2500	74.2	88.2	89.7	90.1	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
IN 2000	75.6	90.5	92.5	92.9	93.7	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IN 1800	76.3	91.2	93.2	93.7	94.5	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IN 1600	77.3	92.4	94.5	95.0	95.9	96.1	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IN 1200	77.6	92.8	94.9	95.5	96.7	96.9	97.3	97.5	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IN 1000	77.7	93.0	95.7	96.2	97.6	97.8	98.2	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IN 900	77.7	93.0	95.7	96.6	97.9	98.1	98.6	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IN 800	77.7	93.0	95.7	96.7	98.3	98.6	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IN 700	77.7	93.0	95.7	96.7	98.3	98.6	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IN 600	77.7	93.0	95.7	96.7	98.3	98.6	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IN 500	77.7	93.0	95.9	96.9	98.6	98.8	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 400	77.7	93.0	95.9	96.9	98.6	98.8	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 300	77.7	93.0	95.9	96.9	98.6	98.8	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 200	77.7	93.0	95.9	96.9	98.6	98.8	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 100	77.7	93.0	95.9	96.9	98.6	98.8	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 0	77.7	93.0	95.9	96.9	98.6	98.8	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 952

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	41.0	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 20000	47.3	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
IN 18000	47.9	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
IN 16000	47.9	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
IN 14000	48.5	53.8	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IN 12000	49.4	54.7	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
IN 10000	53.7	59.1	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
IN 9000	55.2	61.5	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
IN 8000	61.6	68.6	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
IN 7000	65.8	74.0	74.9	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
IN 6000	68.5	77.7	78.6	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
IN 5000	71.1	80.6	81.7	82.0	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
IN 4500	72.0	82.0	83.3	83.7	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IN 4000	73.7	83.8	85.4	85.9	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
IN 3500	75.1	85.9	87.8	88.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IN 3000	75.9	87.5	89.8	90.4	91.9	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
IN 2500	76.9	89.0	91.2	92.0	93.5	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IN 2000	77.5	89.6	92.1	93.1	94.6	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IN 1800	77.5	89.8	92.2	93.2	94.8	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IN 1500	77.7	90.1	92.7	94.1	95.9	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IN 1200	78.1	90.6	93.2	94.6	96.8	97.3	97.4	97.5	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IN 1000	78.1	91.0	93.7	95.3	97.8	98.3	98.5	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IN 900	78.1	91.0	93.7	95.3	97.8	98.3	98.5	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IN 800	78.1	91.0	93.7	95.4	97.9	98.5	98.8	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IN 700	78.1	91.0	93.7	95.4	97.9	98.5	98.8	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IN 600	78.1	91.0	93.7	95.4	97.9	98.5	98.8	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IN 500	78.1	91.0	93.7	95.4	97.9	98.5	98.8	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IN 400	78.1	91.0	93.7	95.4	97.9	98.5	98.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 300	78.1	91.0	93.7	95.4	97.9	98.5	98.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 200	78.1	91.0	93.7	95.4	97.9	98.5	98.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 100	78.1	91.0	93.7	95.4	97.9	98.5	98.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 0	78.1	91.0	93.7	95.4	97.9	98.5	98.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
7120

STATION NAME  
SEMBACH AB DL

YEAR  
65-68,76-81

MONTH  
MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

21-0-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING ≥ 20000	38.5	49.6	50.3	50.3	50.3	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
IV 18000	42.2	53.3	54.3	54.3	54.3	54.3	54.7	54.7	54.7	54.7	54.9	54.9	54.9	54.9	54.9	55.0
IV 16000	42.5	53.6	54.3	54.5	54.5	54.6	55.0	55.0	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.3
IV 14000	42.5	53.6	54.3	54.5	54.5	54.6	55.0	55.0	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.3
IV 12000	42.7	53.9	54.6	54.7	54.7	54.9	55.3	55.3	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.6
IV 10000	44.3	55.5	56.2	56.3	56.3	56.5	56.9	56.9	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.2
IV 9000	45.5	57.5	58.3	58.5	58.5	58.6	59.1	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.3
IV 8000	47.0	59.1	60.5	60.6	60.6	60.8	61.2	61.2	61.2	61.4	61.4	61.4	61.4	61.4	61.4	61.5
IV 7000	51.1	63.4	64.9	65.5	65.5	65.8	66.2	66.2	66.2	66.4	66.4	66.4	66.4	66.4	66.4	66.5
IV 6000	52.6	66.8	69.3	70.3	70.5	70.8	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.8
IV 5000	54.3	70.0	72.6	73.6	73.9	74.1	74.9	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.1
IV 4500	57.3	74.3	77.2	78.9	79.2	79.7	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.7
IV 4000	60.1	78.3	81.2	82.9	83.2	83.9	84.6	84.6	84.6	84.8	84.8	84.8	84.8	84.8	84.8	84.9
IV 3500	62.1	81.6	85.1	86.8	87.1	87.9	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	89.1
IV 3000	63.2	83.0	86.5	88.2	88.8	89.8	90.7	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.9
IV 2500	63.8	84.1	87.6	89.4	90.2	91.4	92.4	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.7
IV 2000	64.1	84.6	88.2	89.9	90.8	92.1	93.2	93.2	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.5
IV 1800	64.5	85.2	88.8	90.7	91.8	93.2	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.7
IV 1500	64.5	85.3	89.2	91.1	92.2	93.7	94.8	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.3
IV 1200	64.5	85.6	89.5	91.8	93.1	94.5	96.0	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.4
IV 1000	64.7	85.8	89.7	92.4	94.0	95.4	96.8	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.3
IV 900	64.7	85.9	90.2	93.0	94.8	96.3	98.0	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.4
IV 800	64.7	85.9	90.2	93.0	94.8	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
IV 700	64.7	85.9	90.2	93.0	94.8	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
IV 600	64.7	85.9	90.2	93.0	94.8	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
IV 500	64.7	85.9	90.2	93.0	94.8	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
IV 400	64.7	85.9	90.2	93.0	94.8	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
IV 300	64.7	85.9	90.2	93.0	94.8	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
IV 200	64.7	85.9	90.2	93.0	94.8	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
IV 100	64.7	85.9	90.2	93.0	94.8	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
IV 0	64.7	85.9	90.2	93.0	94.8	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4

TOTAL NUMBER OF OBSERVATIONS 696

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,76-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING ≥ 20000	32.7	40.7	41.8	42.4	43.0	43.1	43.3	43.4	43.4	43.5	43.6	43.6	43.7	43.7	43.8	44.0
IV 18000	36.7	44.9	46.0	46.7	47.4	47.6	47.8	47.9	48.0	48.1	48.2	48.2	48.2	48.3	48.4	48.6
IV 16000	37.0	45.2	46.3	47.0	47.7	47.9	48.1	48.2	48.3	48.4	48.5	48.5	48.5	48.6	48.7	48.9
IV 14000	37.2	45.4	46.6	47.2	48.0	48.2	48.4	48.5	48.5	48.7	48.8	48.8	48.8	48.9	49.0	49.2
IV 12000	38.1	46.3	47.5	48.2	49.0	49.1	49.4	49.5	49.5	49.7	49.7	49.8	49.8	49.8	50.0	50.2
IV 10000	40.2	49.0	50.3	51.0	51.9	52.0	52.2	52.4	52.5	52.6	52.7	52.7	52.8	52.8	53.0	53.2
IV 8000	41.4	50.7	52.2	53.0	53.9	54.1	54.3	54.5	54.5	54.6	54.7	54.8	54.8	54.8	55.0	55.2
IV 7000	44.7	55.4	57.3	57.9	59.0	59.2	59.5	59.7	59.7	59.9	60.0	60.0	60.1	60.1	60.3	60.5
IV 6000	47.3	59.2	61.2	62.2	63.5	63.7	64.0	64.2	64.3	64.6	64.7	64.7	64.7	64.8	65.0	65.2
IV 5000	48.9	61.7	63.8	64.8	66.2	66.4	66.8	67.1	67.2	67.4	67.6	67.6	67.6	67.7	67.9	68.2
IV 4500	50.9	64.3	66.7	68.0	69.6	69.9	70.3	70.6	70.6	70.9	71.0	71.0	71.1	71.2	71.3	71.6
IV 4000	52.7	66.9	69.4	70.8	72.4	72.8	73.2	73.5	73.5	73.8	73.9	73.9	74.0	74.1	74.2	74.5
IV 3500	55.0	69.9	72.6	74.2	75.9	76.3	76.7	77.0	77.1	77.3	77.5	77.5	77.5	77.6	77.8	78.1
IV 3000	57.2	72.8	75.7	77.4	79.3	79.7	80.1	80.4	80.5	80.8	80.9	80.9	81.0	81.1	81.2	81.5
IV 2500	59.5	75.7	78.7	80.5	82.6	83.1	83.6	83.9	84.0	84.3	84.4	84.4	84.4	84.5	84.7	85.0
IV 2000	60.6	77.6	80.7	82.6	84.9	85.4	85.9	86.2	86.3	86.6	86.7	86.8	86.8	86.9	87.1	87.3
IV 1800	61.8	79.7	83.1	85.1	87.6	88.2	88.8	89.1	89.2	89.5	89.6	89.6	89.7	89.8	89.9	90.2
IV 1500	62.1	80.2	83.7	85.7	88.3	88.9	89.4	89.8	89.9	90.2	90.3	90.3	90.4	90.4	90.6	90.9
IV 1200	62.9	81.5	85.2	87.5	90.3	90.9	91.6	92.0	92.1	92.4	92.5	92.5	92.6	92.7	92.8	93.1
IV 1000	63.4	82.6	86.5	89.1	92.2	92.8	93.6	94.1	94.2	94.6	94.7	94.8	94.8	94.9	95.0	95.3
IV 900	63.6	83.1	87.3	89.9	93.3	93.9	94.8	95.3	95.5	95.8	95.9	96.0	96.0	96.1	96.3	96.6
IV 800	63.7	83.2	87.6	90.3	93.8	94.4	95.3	95.8	96.0	96.4	96.5	96.6	96.6	96.7	96.9	97.2
IV 700	63.7	83.3	87.8	90.6	94.1	94.8	95.8	96.3	96.5	96.9	97.0	97.1	97.1	97.2	97.4	97.7
IV 600	63.8	83.4	88.0	90.8	94.4	95.1	96.1	96.8	97.0	97.4	97.6	97.6	97.7	97.8	98.0	98.3
IV 500	63.8	83.5	88.0	90.9	94.6	95.3	96.4	97.1	97.4	97.9	98.0	98.1	98.1	98.2	98.4	98.7
IV 400	63.9	83.6	88.2	91.0	94.8	95.5	96.6	97.4	97.7	98.2	98.4	98.4	98.5	98.6	98.8	99.1
IV 300	63.9	83.6	88.2	91.0	94.9	95.6	96.7	97.6	97.9	98.5	98.7	98.7	98.8	98.9	99.1	99.4
IV 200	63.9	83.6	88.2	91.0	94.9	95.6	96.8	97.7	98.0	98.7	98.9	99.0	99.1	99.2	99.5	100.0
IV 100	63.9	83.6	88.2	91.0	94.9	95.6	96.8	97.7	98.0	98.7	98.9	99.0	99.1	99.2	99.5	100.0
IV 0	63.9	83.6	88.2	91.0	94.9	95.6	96.8	97.7	98.0	98.7	98.9	99.0	99.1	99.2	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 6119

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
17120

STATION NAME  
SENBACH AB DL

YEARS  
65-68,76-77,79-81

MONTH  
JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3090-0203  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥4	≥0
NO CEILING	21.7	40.9	43.3	45.0	47.8	48.2	48.6	48.6	48.8	49.0	49.3	49.3	49.7	49.9	49.9	50.7
≥ 20000	22.8	42.4	45.2	47.1	50.3	50.7	51.2	51.2	51.6	51.8	52.0	52.0	52.5	52.7	52.7	53.5
IV 18000	22.8	42.4	45.2	47.1	50.3	50.7	51.2	51.2	51.6	51.8	52.0	52.0	52.5	52.7	52.7	53.5
IV 16000	22.8	42.4	45.2	47.1	50.3	50.7	51.2	51.2	51.6	51.8	52.0	52.0	52.5	52.7	52.7	53.5
IV 14000	22.8	42.4	45.2	47.1	50.3	50.7	51.2	51.2	51.6	51.8	52.0	52.0	52.5	52.7	52.7	53.5
IV 12000	22.8	42.4	45.2	47.1	50.3	50.7	51.2	51.2	51.6	51.8	52.0	52.0	52.5	52.7	52.7	53.5
IV 10000	24.9	46.1	49.3	51.4	54.6	55.2	55.9	55.9	56.3	56.5	56.7	56.7	57.1	57.4	57.4	58.2
IV 9000	25.8	48.0	51.2	53.3	56.5	57.1	57.8	57.8	58.2	58.4	58.6	58.6	59.1	59.3	59.3	60.1
IV 8000	28.6	53.1	57.1	60.6	64.6	66.3	67.2	67.2	67.6	68.0	68.2	68.2	68.7	68.9	68.9	69.7
IV 7000	30.1	55.2	59.9	63.8	68.0	69.7	70.6	70.6	71.0	71.4	71.6	71.6	72.1	72.3	72.3	73.1
IV 6000	30.9	56.7	61.6	65.5	69.7	71.4	72.3	72.3	72.7	73.1	73.3	73.3	73.8	74.0	74.0	74.8
IV 5000	31.3	58.6	63.5	67.4	71.6	73.3	74.2	74.2	74.8	75.5	75.7	75.7	76.1	76.3	76.3	77.4
IV 4500	32.2	60.3	65.5	69.5	73.8	75.5	76.3	76.3	77.0	77.6	77.8	77.8	78.3	78.5	78.5	79.5
IV 4000	33.7	62.7	67.8	71.9	77.0	78.7	79.7	79.7	80.4	81.0	81.2	81.2	81.7	81.9	81.9	82.9
IV 3500	35.0	64.4	69.5	73.6	78.7	80.4	81.4	81.4	82.1	82.7	82.9	82.9	83.4	83.6	83.6	84.6
IV 3000	35.2	65.9	71.4	75.5	80.8	82.5	83.4	83.4	84.2	84.9	85.1	85.1	85.5	85.7	85.7	87.2
IV 2500	35.2	66.3	71.9	75.9	81.2	82.9	85.1	85.9	86.6	87.2	87.4	87.4	87.8	88.1	88.1	89.6
IV 2000	35.8	68.0	73.6	77.6	83.4	85.3	87.4	88.3	88.9	89.6	89.8	89.8	90.2	90.4	90.4	91.9
IV 1800	35.8	68.0	73.6	77.6	83.4	85.3	87.4	88.5	89.3	90.0	90.2	90.2	90.6	90.8	90.8	92.3
IV 1500	35.8	69.3	75.1	79.1	85.3	87.0	89.8	90.6	91.5	92.1	92.3	92.3	92.8	93.0	93.0	94.5
IV 1200	36.2	70.6	76.3	80.4	86.6	88.5	91.7	92.5	93.6	94.9	95.1	95.1	95.5	95.7	95.7	97.2
IV 1000	36.2	70.6	76.3	80.4	87.0	89.1	92.3	93.4	94.5	95.7	95.9	95.9	96.4	96.6	96.6	98.1
IV 900	36.2	70.6	76.3	80.4	87.0	89.1	92.3	93.4	94.5	95.7	95.9	95.9	96.4	96.6	96.6	98.1
IV 800	36.2	70.6	76.3	80.4	87.0	89.1	92.3	93.4	94.5	95.7	96.2	96.2	96.6	96.8	96.8	98.3
IV 700	36.2	70.6	76.3	80.4	87.0	89.1	92.5	93.6	94.7	95.9	96.4	96.4	96.8	97.0	97.0	98.5
IV 600	36.2	70.6	76.3	80.4	87.0	89.3	93.0	94.0	95.1	96.4	96.8	96.8	97.2	97.4	97.4	98.9
IV 500	36.2	70.6	76.3	80.4	87.2	89.6	93.2	94.5	95.5	96.8	97.2	97.2	97.7	97.9	97.9	99.4
IV 400	36.2	70.6	76.3	80.4	87.2	89.6	93.4	94.7	95.7	97.0	97.4	97.4	97.9	98.1	98.1	99.6
IV 300	36.2	70.6	76.3	80.4	87.2	89.6	93.4	94.7	95.7	97.0	97.4	97.4	97.9	98.1	98.1	99.8
IV 200	36.2	70.6	76.3	80.4	87.2	89.6	93.4	94.7	95.7	97.0	97.4	97.4	97.9	98.1	98.1	100.0
IV 100	36.2	70.6	76.3	80.4	87.2	89.6	93.4	94.7	95.7	97.0	97.4	97.4	97.9	98.1	98.1	100.0
IV 0	36.2	70.6	76.3	80.4	87.2	89.6	93.4	94.7	95.7	97.0	97.4	97.4	97.9	98.1	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 469



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68,77-81  
PERIOD

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
TIME

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO. CEILING ≥ 20000	18.0	29.3	32.5	34.6	38.4	39.3	40.5	42.1	42.9	43.3	43.6	43.6	44.0	44.3	44.7	45.5
≥ 18000	20.1	31.6	34.7	37.0	40.8	41.7	42.9	44.5	45.4	45.7	46.1	46.1	46.4	46.9	47.3	48.3
≥ 16000	20.1	31.6	34.7	37.0	40.8	41.7	42.9	44.5	45.4	45.7	46.1	46.1	46.4	46.9	47.3	48.3
≥ 14000	20.1	31.6	34.7	37.0	40.8	41.7	42.9	44.5	45.4	45.7	46.1	46.1	46.4	46.9	47.3	48.3
≥ 12000	20.2	31.8	34.9	37.2	41.0	41.9	43.1	44.7	45.5	45.9	46.2	46.2	46.6	47.1	47.5	48.5
≥ 10000	21.8	34.2	37.7	40.1	44.0	44.9	46.2	48.0	49.0	49.4	49.7	49.7	50.1	50.6	51.0	52.0
≥ 9000	23.6	36.5	40.9	42.9	46.9	47.8	49.2	51.0	52.0	52.4	52.7	52.7	53.1	53.6	53.9	55.0
≥ 8000	26.2	41.2	45.2	47.6	52.4	53.6	55.1	57.1	58.1	58.5	59.0	59.0	59.3	59.9	60.2	61.6
≥ 7000	28.6	44.0	48.7	51.3	56.7	58.5	60.0	62.1	63.4	63.7	64.2	64.2	64.6	65.1	65.4	66.8
≥ 6000	29.5	45.0	50.3	52.9	58.5	60.2	61.8	63.9	65.1	65.4	66.0	66.0	66.3	66.8	67.2	68.6
≥ 5000	30.2	46.1	51.5	54.3	60.0	62.0	63.7	65.8	67.0	67.4	68.1	68.1	68.8	69.3	69.6	71.0
≥ 4500	31.1	47.6	53.4	56.5	62.3	64.2	66.0	68.1	69.3	69.6	70.3	70.3	71.0	71.6	71.9	73.3
≥ 4000	31.8	48.9	55.0	58.3	64.6	66.5	68.4	70.5	71.7	72.1	72.8	72.8	73.5	74.0	74.3	75.7
≥ 3500	32.3	49.4	55.8	59.3	65.8	67.7	69.8	71.9	73.1	73.5	74.2	74.2	74.9	75.4	75.7	77.1
≥ 3000	33.5	51.0	57.4	60.9	67.4	69.3	71.6	73.6	74.9	75.2	75.9	75.9	76.6	77.1	77.5	78.9
≥ 2500	34.6	52.7	59.5	63.0	69.5	71.7	74.3	77.3	78.5	79.1	79.8	79.8	80.5	81.0	81.3	82.7
≥ 2000	35.1	53.6	60.6	64.2	71.0	73.3	75.9	79.2	80.5	81.0	81.7	81.7	82.4	82.9	83.2	84.6
≥ 1800	35.3	53.9	60.9	64.6	71.4	73.6	76.3	79.8	81.2	81.7	82.4	82.4	83.1	83.6	83.9	85.3
≥ 1500	35.8	55.7	63.0	66.8	73.6	75.9	78.5	82.0	83.6	84.1	84.8	84.8	85.5	86.0	86.4	87.8
≥ 1200	36.1	56.9	64.7	68.6	75.9	78.5	81.7	85.3	86.9	87.4	88.1	88.1	88.8	89.4	89.7	91.1
≥ 1000	36.6	58.1	66.3	70.2	77.5	80.1	83.2	86.9	88.5	89.0	89.9	90.1	90.8	91.3	91.6	93.0
≥ 900	36.8	58.3	66.5	70.3	78.2	80.8	83.9	87.6	89.2	89.7	90.6	90.8	91.4	92.0	92.3	93.7
≥ 800	37.2	58.6	66.8	71.2	79.6	82.4	85.5	89.2	90.8	91.3	92.1	92.3	93.0	93.5	93.9	95.3
≥ 700	37.3	58.8	67.0	71.4	79.8	82.5	85.9	89.5	91.1	91.8	92.7	92.8	93.5	94.1	94.4	95.8
≥ 600	37.3	58.8	67.0	71.4	79.8	82.5	85.9	89.5	91.1	91.8	92.7	92.8	93.5	94.1	94.4	95.8
≥ 500	37.3	58.8	67.0	71.4	79.8	82.5	85.9	89.5	91.1	91.8	92.7	92.8	93.5	94.1	94.4	95.8
≥ 400	37.5	59.0	67.2	71.9	80.3	83.2	86.9	90.8	92.5	93.2	94.4	94.8	95.5	96.0	96.3	97.9
≥ 300	37.5	59.0	67.2	71.9	80.3	83.4	87.3	91.1	92.8	93.9	95.3	95.6	96.3	96.9	97.2	98.8
≥ 200	37.5	59.0	67.2	71.9	80.3	83.4	87.3	91.1	92.8	93.9	95.3	95.6	96.3	97.0	97.4	99.5
≥ 100	37.5	59.0	67.2	71.9	80.3	83.4	87.3	91.1	92.8	94.1	95.5	95.8	96.5	97.2	97.6	100.0
≥ 0	37.5	59.0	67.2	71.9	80.3	83.4	87.3	91.1	92.8	94.1	95.5	95.8	96.5	97.2	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 573

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SEMBACH AB DL

65-68,76-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0600-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	21.2	30.0	32.2	33.6	36.1	36.8	37.8	39.5	39.6	40.0	40.1	40.2	40.2	40.3	40.4	40.7
≥ 20000	22.8	31.8	34.1	35.8	38.6	39.3	40.3	42.0	42.1	42.5	42.6	42.8	42.8	43.0	43.1	43.4
W 18000	23.0	32.0	34.3	36.1	38.9	39.6	40.6	42.3	42.4	42.8	42.9	43.0	43.0	43.2	43.4	43.6
W 16000	23.0	32.0	34.3	36.1	38.9	39.6	40.6	42.3	42.4	42.8	42.9	43.0	43.0	43.2	43.4	43.6
W 14000	23.1	32.2	34.5	36.2	39.0	39.7	40.7	42.4	42.5	42.9	43.0	43.1	43.1	43.4	43.5	43.7
W 12000	24.2	33.4	35.7	37.4	40.2	40.9	41.9	43.7	44.0	44.3	44.5	44.6	44.6	44.8	44.9	45.2
W 10000	25.9	35.8	38.2	40.3	43.1	44.1	45.1	46.9	47.1	47.6	47.7	47.9	47.9	48.1	48.2	48.5
W 9000	26.9	36.9	39.3	41.7	44.7	45.8	46.8	48.7	49.0	49.6	49.7	49.8	49.8	50.1	50.2	50.4
W 8000	29.0	40.2	42.9	45.4	48.7	50.1	51.2	53.2	53.6	54.2	54.3	54.6	54.6	54.8	54.9	55.2
W 7000	30.8	42.8	45.4	48.1	51.5	52.9	54.0	56.2	56.5	57.1	57.2	57.5	57.5	57.7	57.9	58.1
W 6000	32.4	44.9	47.7	50.4	54.2	55.7	56.8	59.0	59.3	59.9	60.0	60.3	60.3	60.5	60.7	60.9
W 5000	33.7	46.3	49.5	52.4	56.4	58.0	59.3	61.6	62.0	62.6	62.7	63.0	63.0	63.2	63.3	63.6
W 4500	35.4	48.0	51.5	54.6	59.3	60.9	62.2	64.8	65.2	65.8	65.9	66.1	66.1	66.4	66.5	66.7
W 4000	37.1	49.9	53.6	56.9	62.2	64.1	65.5	68.1	68.5	69.1	69.2	69.4	69.4	69.7	69.8	70.0
W 3500	38.5	52.0	55.8	59.3	65.3	67.4	68.8	71.4	71.7	72.4	72.5	72.7	72.7	73.0	73.1	73.3
W 3000	40.1	53.8	57.7	61.4	67.8	69.9	71.4	74.1	74.5	75.2	75.3	75.5	75.5	75.8	75.9	76.1
W 2500	41.8	56.0	59.9	63.7	70.2	72.2	73.8	76.5	77.0	77.7	77.8	78.1	78.1	78.3	78.4	78.7
W 2000	43.2	58.0	62.2	66.1	73.0	75.0	76.7	79.5	80.0	80.8	80.9	81.1	81.1	81.4	81.5	81.7
W 1800	43.6	58.3	62.7	66.7	73.8	75.9	77.6	80.4	81.0	81.7	81.9	82.1	82.1	82.3	82.5	82.7
W 1500	45.4	60.9	65.3	69.5	77.1	79.2	81.0	83.8	84.4	85.1	85.3	85.5	85.6	85.9	86.0	86.2
W 1200	46.3	63.0	68.0	72.6	80.6	82.8	84.7	87.5	88.1	88.8	88.9	89.2	89.3	89.5	89.6	89.9
W 1000	46.5	63.3	68.7	73.7	82.3	84.7	86.6	89.4	90.0	90.7	90.9	91.1	91.2	91.5	91.6	91.8
W 900	46.7	63.5	69.1	74.1	82.9	85.4	87.8	90.7	91.4	92.1	92.2	92.4	92.6	92.8	92.9	93.2
W 800	46.7	63.6	69.5	74.8	84.0	86.5	89.2	92.2	93.1	93.8	93.9	94.2	94.3	94.5	94.6	94.9
W 700	46.8	63.9	69.9	75.2	84.5	87.1	89.9	93.2	94.0	94.8	94.9	95.1	95.2	95.5	95.6	95.9
W 600	46.9	64.2	70.2	75.4	84.9	87.5	90.5	94.0	94.9	95.6	95.7	96.0	96.1	96.3	96.5	96.7
W 500	46.9	64.2	70.3	76.0	85.7	88.3	91.5	95.0	95.9	96.6	96.7	97.0	97.2	97.4	97.6	97.8
W 400	47.0	64.3	70.4	76.1	86.1	88.7	92.0	95.5	96.5	97.4	97.7	97.9	98.2	98.7	98.8	99.0
W 300	47.0	64.3	70.4	76.1	86.1	88.7	92.1	95.6	96.6	97.7	98.1	98.4	98.8	99.3	99.4	99.6
W 200	47.0	64.3	70.4	76.1	86.1	88.7	92.1	95.7	96.7	97.8	98.2	98.5	98.9	99.5	99.6	99.9
W 100	47.0	64.3	70.4	76.1	86.1	88.7	92.1	95.7	96.7	97.8	98.2	98.5	98.9	99.5	99.6	100.0
W 0	47.0	64.3	70.4	76.1	86.1	88.7	92.1	95.7	96.7	97.8	98.2	98.5	98.9	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 821

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7120

SEMBACH AB DL

65-68,76-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥0.5	≥0.3	≥0.2	≥0.1	≥0.05	≥0.01
NO CEILING	25.8	34.0	34.8	35.6	36.5	36.6	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 20000	29.1	37.2	38.3	39.0	40.0	40.2	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
≥ 18000	29.6	37.8	38.8	39.6	40.6	40.7	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≥ 16000	29.8	37.9	38.9	39.7	40.7	40.8	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 14000	30.1	38.3	39.3	40.2	41.2	41.3	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥ 12000	30.9	39.1	40.2	41.1	42.1	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 10000	32.6	41.1	42.2	43.1	44.2	44.3	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 9000	33.6	42.4	43.5	44.4	45.5	45.6	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 8000	36.1	46.3	47.5	48.4	49.9	50.0	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
≥ 7000	37.6	48.3	49.6	50.7	52.5	52.6	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 6000	38.6	50.0	51.2	52.3	54.1	54.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 5000	40.9	52.5	53.8	54.9	56.9	57.5	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 4500	42.2	53.8	55.5	56.7	58.7	59.3	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 4000	45.3	57.5	59.4	60.9	63.0	63.5	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 3500	48.9	61.2	63.1	64.7	67.1	68.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 3000	51.9	65.2	67.8	69.6	72.1	73.0	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 2500	54.6	69.1	72.1	74.2	76.7	77.6	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 2000	57.0	73.2	76.4	78.6	81.4	82.3	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 1800	57.3	74.0	77.4	79.9	82.7	83.6	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 1500	59.2	76.6	80.2	83.4	86.7	87.6	88.4	88.4	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5
≥ 1200	60.9	79.3	83.6	87.7	91.2	92.2	93.1	93.1	93.2	93.4	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1000	61.4	80.2	84.9	89.1	93.0	94.1	95.2	95.3	95.4	95.6	95.6	95.7	95.7	95.7	95.7	95.7
≥ 900	61.4	80.2	85.1	89.5	93.5	94.6	96.0	96.2	96.3	96.5	96.5	96.6	96.6	96.6	96.6	96.6
≥ 800	61.5	80.4	85.6	90.2	94.3	95.4	96.9	97.2	97.3	97.5	97.5	97.7	97.7	97.7	97.7	97.7
≥ 700	61.6	80.6	85.8	90.5	95.3	96.4	97.9	98.2	98.4	98.8	98.8	98.9	98.9	98.9	98.9	98.9
≥ 600	61.7	80.8	86.0	90.7	95.6	96.8	98.3	98.7	98.9	99.2	99.2	99.3	99.3	99.3	99.3	99.3
≥ 500	61.7	80.8	86.1	90.8	95.9	97.1	98.7	99.1	99.4	99.8	99.8	99.9	99.9	99.9	99.9	99.9
≥ 400	61.7	80.8	86.1	90.8	95.9	97.1	98.7	99.1	99.4	99.8	99.8	99.9	99.9	99.9	99.9	99.9
≥ 300	61.7	80.8	86.1	90.8	95.9	97.1	98.7	99.1	99.4	99.8	99.8	99.9	99.9	99.9	99.9	99.9
≥ 200	61.7	80.8	86.1	90.8	95.9	97.1	98.7	99.1	99.4	99.8	99.8	99.9	99.9	99.9	99.9	99.9
≥ 100	61.7	80.8	86.1	90.8	95.9	97.1	98.7	99.1	99.4	99.8	99.8	99.9	99.9	99.9	99.9	99.9
≥ 0	61.7	80.8	86.1	90.8	95.9	97.1	98.7	99.1	99.4	99.8	99.8	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 899

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

107120

SENBACH AB DL

65-68,76-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO CEILING	24.8	31.6	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
≥ 20000	30.9	37.9	38.6	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 18000	31.1	38.2	38.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥ 16000	31.1	38.2	38.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥ 14000	31.7	38.7	39.4	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
≥ 12000	32.7	40.0	40.6	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 10000	34.4	42.4	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 9000	35.9	44.4	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 8000	39.1	48.5	49.3	49.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 7000	41.1	51.2	52.2	52.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 6000	42.1	53.6	54.6	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 5000	46.4	58.6	59.7	59.8	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 4500	48.3	61.5	62.7	62.9	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 4000	53.0	67.1	68.5	68.9	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 3500	59.4	75.0	76.8	77.1	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 3000	62.6	80.1	82.0	83.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 2500	64.8	83.7	85.6	86.6	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 2000	65.8	86.2	88.4	89.7	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 1800	66.1	86.6	88.8	90.2	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 1500	67.3	88.3	90.7	92.4	93.8	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1200	68.1	89.8	92.2	94.3	96.1	96.2	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1000	68.2	90.0	92.7	95.0	96.8	97.0	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	68.3	90.1	92.9	95.1	96.9	97.1	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 800	68.4	90.3	93.2	95.4	97.5	98.0	98.4	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700	68.5	90.4	93.3	95.5	97.7	98.1	98.7	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	68.5	90.4	93.3	95.5	97.7	98.1	98.7	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	68.5	90.4	93.3	95.5	97.7	98.1	98.7	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	68.5	90.4	93.3	95.5	97.7	98.1	98.7	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	68.5	90.4	93.3	95.5	97.7	98.1	98.7	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	68.5	90.4	93.3	95.5	97.7	98.1	98.7	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	68.5	90.4	93.3	95.5	97.7	98.1	98.7	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	68.5	90.4	93.3	95.5	97.7	98.1	98.7	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 896

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

17120

SEMBACH AB DL

65-68,76-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	29.5	35.6	35.6	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
18000	37.2	43.6	43.6	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
16000	37.3	43.7	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
14000	37.3	43.7	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
12000	37.7	44.1	44.2	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
10000	38.8	45.3	45.5	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
8000	41.3	48.4	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
7000	44.4	53.1	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
6000	48.0	58.3	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
5000	51.1	62.5	63.1	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
4500	54.0	66.2	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
4000	58.2	70.9	71.8	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
3500	61.2	75.0	75.9	76.4	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
3000	65.6	79.9	81.1	82.1	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
2500	69.9	85.2	86.4	87.6	88.0	88.0	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
2000	72.3	88.3	89.5	90.8	91.2	91.2	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
1800	73.6	89.9	91.1	92.3	92.9	92.9	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
1600	74.4	91.1	92.3	93.6	94.1	94.1	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
1400	74.9	91.4	92.7	93.9	94.5	94.5	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
1200	75.2	92.1	93.5	95.0	96.4	96.4	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
1000	75.8	93.0	94.4	96.1	97.9	97.9	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
900	75.8	93.0	94.4	96.2	98.1	98.1	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
800	75.8	93.2	94.6	96.4	98.4	98.4	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
700	75.8	93.2	94.6	96.4	98.5	98.5	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
600	75.8	93.2	94.6	96.4	98.5	98.6	99.1	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
500	75.8	93.2	94.6	96.4	98.5	98.6	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	75.8	93.2	94.6	96.4	98.5	98.6	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	75.8	93.2	94.6	96.4	98.5	98.6	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	75.8	93.2	94.6	96.4	98.5	98.6	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	75.8	93.2	94.6	96.4	98.5	98.6	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	75.8	93.2	94.6	96.4	98.5	98.6	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 887

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

65-68,76-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1800-2000

CEILING FEET	VISIBILITY IN MILES															
	20	26	28	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	34.2	43.4	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
1-25000	40.7	50.3	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
1-18000	40.7	50.3	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
1-15000	40.7	50.3	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
1-14000	40.8	50.4	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
1-12000	41.6	51.3	51.9	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
1-10000	44.6	54.9	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
1-9000	46.7	58.4	59.4	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
1-8000	52.6	66.3	67.3	67.8	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
1-7000	56.6	72.3	73.4	73.9	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
1-6000	57.7	74.9	76.0	77.0	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
1-5000	59.7	77.3	78.5	79.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
1-4500	61.9	80.1	81.4	82.5	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
1-4000	65.7	84.3	85.8	87.0	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
1-3500	68.7	87.5	89.1	90.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
1-3000	69.5	88.6	90.4	92.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
1-2500	69.8	89.3	91.1	92.9	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
1-2000	70.3	90.3	92.3	94.0	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
1-1800	70.3	90.5	92.5	94.4	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
1-1600	70.7	91.1	93.1	95.0	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
1-1400	70.9	91.6	93.6	95.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
1-1200	70.9	91.8	93.8	95.6	97.9	97.9	98.1	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
1-1000	70.9	91.8	93.8	95.8	98.0	98.0	98.3	98.6	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1
1-900	70.9	91.8	93.8	95.8	98.0	98.0	98.3	98.6	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1
1-800	70.9	91.8	93.8	95.8	98.0	98.0	98.3	98.6	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1
1-700	70.9	91.8	93.8	95.8	98.0	98.0	98.3	98.6	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1
1-600	70.9	91.8	93.8	96.0	98.4	98.4	98.6	98.8	99.0	99.1	99.1	99.4	99.4	99.4	99.4	99.4
1-500	70.9	91.8	93.8	96.0	98.5	98.5	98.6	98.8	99.0	99.1	99.1	99.4	99.4	99.4	99.4	99.4
1-400	70.9	91.8	93.8	96.0	98.5	98.5	98.6	98.8	99.0	99.1	99.1	99.4	99.4	99.4	99.4	99.4
1-300	70.9	91.8	93.8	96.0	98.5	98.5	98.6	98.8	99.0	99.1	99.1	99.4	99.4	99.4	99.4	99.4
1-200	70.9	91.8	93.8	96.0	98.5	98.5	98.6	98.8	99.0	99.1	99.1	99.4	99.4	99.4	99.4	99.4
1-100	70.9	91.8	93.8	96.0	98.5	98.5	98.6	98.8	99.0	99.1	99.1	99.4	99.4	99.4	99.4	99.4
1-0	70.9	91.8	93.8	96.0	98.5	98.5	98.6	98.8	99.0	99.1	99.1	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 801

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7127 SEMBACH AB DL

65-68,76-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

2100-2300

LINE 10 - 1000 METER																
NO. OF LINE	210	20	21	4	10	12	21	2	2	2	2	2	2	2	2	2
2 2000	32.4	43.3	45.4	46.4	47.6	47.6	47.6	47.6	47.8	48.0	48.0	48.0	48.0	48.0	48.0	48.0
2 1800	37.3	48.5	50.7	51.7	52.8	52.8	52.8	52.8	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3
2 1600	37.3	48.5	50.7	51.7	52.8	52.8	52.8	52.8	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3
2 1400	37.6	48.8	50.9	52.0	53.1	53.1	53.1	53.1	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2 1200	37.9	49.2	51.4	52.4	53.6	53.6	53.6	53.6	53.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0
2 1000	40.8	52.7	54.9	55.9	57.0	57.0	57.0	57.0	57.2	57.5	57.5	57.5	57.5	57.5	57.5	57.5
2 900	43.1	56.0	58.3	59.4	60.5	60.5	60.5	60.5	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0
2 800	47.6	62.7	65.7	66.9	68.8	69.1	69.1	69.1	69.2	69.5	69.5	69.5	69.5	69.5	69.5	69.5
2 700	48.9	65.6	68.9	70.4	72.9	73.3	73.3	73.6	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0
2 600	49.9	67.5	71.1	72.7	75.2	75.6	75.6	76.1	76.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5
2 500	52.1	70.5	74.5	76.2	79.0	79.4	79.4	79.8	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3
2 450	52.5	71.4	75.3	77.2	80.1	80.6	80.6	81.0	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2 400	54.4	73.7	77.9	79.8	83.0	83.5	83.5	83.9	84.0	84.3	84.5	84.5	84.5	84.5	84.5	84.6
2 350	56.7	76.8	81.1	83.0	86.4	86.8	86.8	87.4	87.5	87.8	88.0	88.1	88.1	88.1	88.1	88.2
2 300	58.2	79.5	84.2	86.4	90.0	90.4	90.4	91.0	91.1	91.4	91.6	91.7	91.7	91.7	91.7	91.9
2 250	58.3	80.3	85.2	87.5	91.3	91.7	91.9	92.5	92.6	92.9	93.0	93.2	93.2	93.2	93.2	93.3
2 200	58.9	81.4	86.4	89.0	93.2	93.8	94.0	94.6	94.8	95.1	95.2	95.4	95.4	95.4	95.4	95.8
2 1800	58.9	81.6	86.5	89.1	93.3	93.9	94.2	94.8	94.9	95.2	95.4	95.5	95.5	95.5	95.5	95.9
2 1500	59.2	82.0	87.1	89.8	94.3	94.9	95.2	95.8	95.9	96.2	96.4	96.5	96.5	96.5	96.5	97.0
2 1200	59.4	82.3	87.4	90.1	94.6	95.4	95.9	96.7	96.8	97.1	97.2	97.4	97.4	97.4	97.4	98.0
2 1000	59.4	82.3	87.4	90.1	94.8	95.5	96.4	97.1	97.2	97.5	97.7	97.8	97.8	97.8	97.8	98.4
2 900	59.4	82.3	87.4	90.3	94.9	95.6	96.5	97.2	97.4	97.7	98.0	98.1	98.1	98.1	98.1	98.7
2 800	59.7	82.6	87.7	90.6	95.2	95.9	96.8	97.5	97.7	98.0	98.4	98.5	98.5	98.5	98.5	99.1
2 700	59.7	82.6	87.7	90.6	95.2	96.1	97.1	98.1	98.3	98.5	99.0	99.1	99.1	99.1	99.1	99.7
2 600	59.7	82.6	87.7	90.6	95.2	96.1	97.1	98.1	98.3	98.5	99.0	99.1	99.1	99.1	99.1	99.7
2 500	59.7	82.6	87.7	90.6	95.2	96.1	97.2	98.3	98.4	98.7	99.3	99.4	99.4	99.4	99.4	100.0
2 400	59.7	82.6	87.7	90.6	95.2	96.1	97.2	98.3	98.4	98.7	99.3	99.4	99.4	99.4	99.4	100.0
2 300	59.7	82.6	87.7	90.6	95.2	96.1	97.2	98.3	98.4	98.7	99.3	99.4	99.4	99.4	99.4	100.0
2 200	59.7	82.6	87.7	90.6	95.2	96.1	97.2	98.3	98.4	98.7	99.3	99.4	99.4	99.4	99.4	100.0
2 100	59.7	82.6	87.7	90.6	95.2	96.1	97.2	98.3	98.4	98.7	99.3	99.4	99.4	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 689

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

65-68,76-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	26.4	35.7	37.1	37.9	39.1	39.3	39.6	40.0	40.1	40.3	40.3	40.4	40.4	40.5	40.5	40.7
≥ 2000	30.8	40.4	41.8	42.7	44.0	44.2	44.6	45.0	45.1	45.2	45.3	45.3	45.4	45.5	45.5	45.7
≥ 1800	31.0	40.6	42.0	42.9	44.2	44.4	44.7	45.1	45.3	45.4	45.5	45.5	45.6	45.7	45.7	45.9
≥ 1600	31.3	40.6	42.0	42.9	44.2	44.4	44.8	45.1	45.3	45.4	45.5	45.5	45.6	45.7	45.7	45.9
≥ 1400	31.3	40.9	42.3	43.2	44.5	44.7	45.0	45.4	45.6	45.7	45.8	45.8	45.9	46.0	46.0	46.2
≥ 1200	32.0	41.7	43.2	44.1	45.3	45.6	45.9	46.3	46.5	46.6	46.7	46.7	46.8	46.9	46.9	47.1
≥ 1000	34.1	44.5	46.1	47.1	48.4	48.7	49.1	49.5	49.7	49.8	49.9	49.9	50.0	50.0	50.1	50.3
≥ 800	35.9	47.1	48.8	49.8	51.2	51.5	51.9	52.3	52.5	52.6	52.7	52.7	52.8	52.9	52.9	53.1
≥ 600	39.3	52.1	54.1	55.3	57.0	57.5	57.9	58.4	58.6	58.8	58.9	58.9	59.0	59.1	59.1	59.3
≥ 400	41.5	55.4	57.5	58.9	60.8	61.3	61.8	62.3	62.5	62.7	62.8	62.8	62.9	63.0	63.1	63.3
≥ 200	42.9	57.6	59.9	61.3	63.3	63.9	64.4	64.9	65.1	65.3	65.4	65.4	65.5	65.6	65.7	65.9
≥ 100	45.3	60.5	62.9	64.4	66.6	67.3	67.8	68.4	68.6	68.8	68.9	68.9	69.0	69.1	69.2	69.4
≥ 50	46.9	62.7	65.3	67.0	69.3	70.0	70.5	71.1	71.4	71.6	71.7	71.7	71.8	71.9	71.9	72.2
≥ 25	49.9	66.2	69.0	70.9	73.5	74.2	74.8	75.4	75.7	75.9	76.0	76.0	76.1	76.2	76.3	76.5
≥ 15	53.3	69.9	72.9	74.9	77.7	78.5	79.1	79.7	80.0	80.2	80.3	80.4	80.5	80.6	80.6	80.9
≥ 10	54.9	72.7	75.9	78.1	81.1	81.9	82.5	83.2	83.4	83.7	83.8	83.8	83.9	84.0	84.1	84.4
≥ 5	56.2	74.7	78.1	80.4	83.5	84.3	85.1	85.9	86.2	86.4	86.6	86.6	86.7	86.8	86.8	87.1
≥ 3	57.3	76.6	80.1	82.6	85.9	86.7	87.6	88.5	88.7	89.0	89.1	89.2	89.3	89.4	89.4	89.8
≥ 2	57.5	77.0	80.5	83.0	86.4	87.2	88.1	89.0	89.3	89.6	89.7	89.8	89.9	90.0	90.0	90.4
≥ 1	58.4	78.5	82.2	84.9	88.7	89.6	90.5	91.5	91.8	92.1	92.2	92.3	92.4	92.5	92.5	92.9
≥ 0.5	59.0	79.8	83.7	86.8	90.9	91.9	92.9	93.9	94.3	94.7	94.8	94.9	95.0	95.1	95.1	95.5
≥ 0.25	59.2	80.2	84.3	87.4	91.7	92.8	93.9	95.0	95.4	95.7	95.8	95.9	96.1	96.2	96.2	96.6
≥ 0.1	59.3	80.2	84.4	87.6	92.0	93.1	94.4	95.5	95.8	96.2	96.3	96.4	96.6	96.7	96.7	97.1
≥ 0.05	59.4	80.4	84.7	88.0	92.6	93.7	95.1	96.2	96.6	96.9	97.1	97.2	97.3	97.4	97.5	97.9
≥ 0.025	59.4	80.5	84.8	88.1	92.9	94.0	95.5	96.7	97.1	97.5	97.7	97.8	97.9	98.0	98.1	98.5
≥ 0.01	59.5	80.6	84.9	88.2	93.0	94.2	95.7	97.0	97.5	97.9	98.1	98.2	98.3	98.4	98.5	98.8
≥ 0.005	59.5	80.6	84.9	88.4	93.3	94.4	96.0	97.4	97.9	98.3	98.5	98.6	98.8	98.9	98.9	99.3
≥ 0.0025	59.5	80.6	84.9	88.4	93.3	94.5	96.2	97.5	98.0	98.5	98.8	98.9	99.1	99.2	99.3	99.6
≥ 0.001	59.5	80.6	84.9	88.4	93.3	94.5	96.2	97.6	98.1	98.6	98.9	99.1	99.2	99.4	99.4	99.8
≥ 0.0005	59.5	80.6	84.9	88.4	93.3	94.5	96.2	97.6	98.1	98.7	99.0	99.1	99.3	99.4	99.5	99.9
≥ 0.00025	59.5	80.6	84.9	88.4	93.3	94.5	96.2	97.6	98.1	98.7	99.0	99.1	99.3	99.4	99.5	100.0
≥ 0.0001	59.5	80.6	84.9	88.4	93.3	94.5	96.2	97.6	98.1	98.7	99.0	99.1	99.3	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 6030



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-68,77-80

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0000-0200

CEILING FEET		VISIBILITY IN STATUTE MILES															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. CEILING	23.5	52.7	55.1	56.3	57.7	57.7	58.3	58.6	58.8	59.0	59.4	59.4	59.4	59.6	59.6	60.0	60.0
20000	24.1	53.3	55.7	56.9	58.3	58.3	59.0	59.4	59.6	59.8	60.4	60.4	60.4	60.6	60.6	61.0	61.0
21800	24.1	53.3	55.7	56.9	58.3	58.3	59.0	59.4	59.6	59.8	60.4	60.4	60.4	60.6	60.6	61.0	61.0
21900	24.1	53.3	55.7	56.9	58.3	58.3	59.0	59.4	59.6	59.8	60.4	60.4	60.4	60.6	60.6	61.0	61.0
214000	24.1	53.3	55.7	56.9	58.3	58.3	59.0	59.4	59.6	59.8	60.4	60.4	60.4	60.6	60.6	61.0	61.0
212000	24.1	53.5	55.9	57.1	58.4	58.4	59.2	59.6	59.8	60.0	60.6	60.6	60.6	60.8	60.8	61.2	61.2
210000	24.7	54.1	56.5	57.7	59.0	59.0	59.8	60.2	60.4	60.6	61.2	61.2	61.2	61.4	61.4	61.8	61.8
20900	25.4	56.9	59.2	60.4	62.0	62.0	62.8	63.2	63.4	63.6	64.2	64.2	64.2	64.4	64.4	64.8	64.8
20800	29.0	62.8	65.6	66.8	68.4	68.4	69.2	69.6	69.8	70.0	70.6	70.6	70.6	70.8	70.8	71.2	71.2
20700	30.0	67.4	70.6	71.8	73.4	73.4	74.4	74.8	75.0	75.1	75.7	75.7	75.7	75.9	75.9	76.3	76.3
20600	31.2	70.0	73.4	74.8	76.5	76.7	77.7	78.1	78.3	78.5	79.1	79.1	79.1	79.3	79.3	79.7	79.7
20500	33.2	72.6	76.3	78.3	80.5	80.7	81.7	82.1	82.3	82.7	83.3	83.3	83.3	83.5	83.5	83.9	83.9
20400	33.8	74.8	78.7	81.1	83.5	83.7	84.7	85.1	85.3	85.7	86.3	86.3	86.3	86.5	86.5	86.9	86.9
20300	33.8	75.0	79.5	82.1	84.5	84.7	85.9	86.3	86.5	86.9	87.5	87.5	87.5	87.7	87.7	88.1	88.1
20200	34.0	76.1	81.1	83.7	86.1	86.5	87.7	88.1	88.3	88.7	89.3	89.3	89.3	89.5	89.5	89.9	89.9
20100	34.0	76.1	81.1	83.7	86.1	86.7	87.9	88.3	88.5	88.9	89.5	89.5	89.5	89.7	89.7	90.1	90.1
20000	34.4	76.5	81.5	84.1	86.7	87.5	88.7	89.1	89.3	89.7	90.3	90.3	90.3	90.5	90.5	90.9	90.9
21900	34.4	76.7	81.9	84.5	87.3	88.3	89.5	89.9	90.5	90.9	91.5	91.5	91.5	91.7	91.7	92.0	92.0
21800	34.4	76.9	82.1	84.7	87.5	88.5	89.7	90.1	90.7	91.1	91.7	91.7	91.7	91.8	91.8	92.2	92.2
21700	34.6	77.5	82.9	85.7	88.5	89.5	90.9	91.3	91.8	92.2	92.8	92.8	92.8	93.0	93.0	93.4	93.4
21600	34.6	78.1	83.7	86.5	89.7	90.9	92.6	93.0	93.6	94.0	94.6	94.6	94.6	94.8	94.8	95.2	95.2
21500	34.6	78.5	84.1	87.1	90.3	91.5	93.4	93.8	94.4	94.8	95.4	95.4	95.4	95.6	95.6	96.0	96.0
21400	34.6	78.5	84.1	87.5	90.7	91.8	94.2	94.8	95.4	95.8	96.4	96.4	96.4	96.6	96.6	97.0	97.0
21300	34.6	78.9	84.5	87.9	91.1	92.2	94.6	95.2	95.8	96.2	96.8	96.8	96.8	97.0	97.0	97.4	97.4
21200	34.6	78.9	84.5	87.9	91.8	93.0	95.4	96.0	96.6	97.0	97.6	97.6	97.6	97.8	97.8	98.2	98.2
21100	34.6	78.9	84.5	87.9	92.2	93.4	95.8	96.4	97.0	97.4	98.0	98.0	98.0	98.2	98.2	98.6	98.6
21000	34.6	78.9	84.5	87.9	92.2	93.4	95.8	96.4	97.0	97.4	98.0	98.0	98.0	98.2	98.2	98.6	98.6
20900	34.6	78.9	84.5	87.9	92.2	93.4	96.4	97.0	97.8	98.2	98.8	98.8	98.8	99.0	99.0	99.4	99.4
20800	34.6	78.9	84.5	87.9	92.2	93.4	96.4	97.0	97.8	98.2	98.8	98.8	98.8	99.0	99.0	99.4	99.4
20700	34.6	78.9	84.5	87.9	92.2	93.4	96.4	97.0	97.8	98.2	98.8	98.8	98.8	99.0	99.0	99.4	99.4
20600	34.6	78.9	84.5	87.9	92.2	93.4	96.4	97.0	97.8	98.2	98.8	98.8	98.8	99.0	99.0	99.4	99.4
20500	34.6	78.9	84.5	87.9	92.2	93.4	96.4	97.0	97.8	98.2	98.8	98.8	98.8	99.0	99.0	99.4	99.4
20400	34.6	78.9	84.5	87.9	92.2	93.4	96.4	97.0	97.8	98.2	98.8	98.8	98.8	99.0	99.0	99.4	99.4
20300	34.6	78.9	84.5	87.9	92.2	93.4	96.4	97.0	97.8	98.2	98.8	98.8	98.8	99.0	99.0	99.4	99.4
20200	34.6	78.9	84.5	87.9	92.2	93.4	96.4	97.0	97.8	98.2	98.8	98.8	98.8	99.0	99.0	99.4	99.4
20100	34.6	78.9	84.5	87.9	92.2	93.4	96.4	97.0	97.8	98.2	98.8	98.8	98.8	99.0	99.0	99.4	99.4
20000	34.6	78.9	84.5	87.9	92.2	93.4	96.4	97.0	97.8	98.2	98.8	98.8	98.8	99.0	99.0	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 503

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-68,77-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	VISIBILITY - STAT. MILES															
	210	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. FEET	19.6	39.2	42.3	43.5	45.0	45.0	46.3	47.2	47.8	48.0	48.3	48.6	48.6	48.6	48.6	50.1
2 2000	20.6	40.2	43.2	44.5	45.9	45.9	47.4	48.3	49.0	49.1	49.4	49.8	49.9	49.9	49.9	51.4
2 1800	20.6	40.2	43.2	44.5	45.9	45.9	47.4	48.3	49.0	49.1	49.4	49.8	49.9	49.9	49.9	51.4
2 1600	20.6	40.2	43.2	44.5	45.9	45.9	47.4	48.5	49.1	49.3	49.6	49.9	50.1	50.1	50.1	51.5
2 1400	20.9	40.5	43.5	44.8	46.3	46.3	47.7	48.8	49.4	49.6	49.9	50.2	50.4	50.4	50.4	51.8
2 1200	20.9	40.7	43.7	45.1	46.6	46.6	48.0	49.1	49.8	49.9	50.2	50.6	50.7	50.7	50.7	52.2
2 1000	21.9	41.8	45.0	46.4	48.0	48.0	49.4	50.6	51.2	51.4	51.7	52.0	52.2	52.2	52.2	53.6
2 800	23.0	44.2	47.4	48.8	50.6	50.6	52.0	53.1	53.7	53.9	54.2	54.5	54.7	54.7	54.7	56.1
2 600	26.6	52.2	56.1	57.9	59.8	59.8	61.2	62.4	63.0	63.2	63.5	63.8	64.0	64.0	64.0	65.4
2 400	27.6	54.1	58.9	60.6	62.9	63.0	65.1	66.2	66.8	67.0	67.3	67.6	67.8	67.8	67.8	69.2
2 200	29.0	57.1	62.0	63.8	65.7	66.3	68.6	69.7	70.3	70.5	70.8	71.1	71.3	71.3	71.3	72.7
2 1000	30.6	59.6	65.4	67.1	69.2	69.9	72.1	73.4	74.2	74.3	74.6	75.0	75.3	75.3	75.3	76.7
2 400	32.2	62.0	67.8	69.5	71.9	72.6	74.8	76.2	77.0	77.2	77.5	77.8	78.1	78.1	78.1	79.6
2 300	32.7	63.0	68.7	70.5	72.9	73.5	75.8	77.2	78.0	78.1	78.5	78.8	79.1	79.1	79.1	80.5
2 2500	34.4	64.9	70.8	72.9	75.4	76.1	78.5	79.9	80.7	80.9	81.2	81.5	81.8	81.8	81.8	83.3
2 2000	34.6	65.4	71.9	74.0	76.6	77.2	79.6	81.0	81.8	82.0	82.3	82.6	82.9	82.9	82.9	84.4
2 1800	34.9	66.0	72.7	74.8	77.5	78.1	80.7	82.1	82.9	83.1	83.4	83.7	84.1	84.1	84.1	85.5
2 1600	34.9	66.3	73.4	75.4	78.6	79.3	81.8	83.4	84.2	84.4	84.7	85.0	85.3	85.3	85.3	86.8
2 1400	35.1	67.0	74.0	76.1	79.3	79.9	82.6	84.2	85.0	85.2	85.5	85.8	86.1	86.1	86.1	87.6
2 1200	35.2	67.3	74.5	76.9	80.5	81.3	84.1	85.6	86.4	86.6	87.1	87.4	87.7	87.9	87.9	89.3
2 1000	35.6	67.9	75.3	77.7	81.3	82.6	85.5	87.1	87.9	88.0	88.5	88.8	89.2	89.3	89.3	90.7
2 800	35.7	68.3	75.9	78.3	82.0	83.4	86.6	88.2	89.0	89.2	89.6	90.0	90.3	90.4	90.4	91.9
2 600	35.7	68.4	76.4	78.9	82.6	84.1	87.2	88.8	89.6	89.8	90.3	90.6	90.9	91.1	91.1	92.5
2 400	36.2	69.2	77.7	80.5	84.2	85.6	89.0	90.6	91.4	91.5	92.0	92.3	92.7	92.8	92.8	94.3
2 200	36.4	69.9	78.3	81.2	85.3	87.1	90.9	92.7	93.5	93.8	94.3	94.6	94.9	95.1	95.1	96.5
2 1000	36.4	69.9	78.3	81.2	85.3	87.2	91.1	93.0	93.8	94.1	94.6	94.9	95.2	95.4	95.4	96.8
2 800	36.4	69.9	78.3	81.2	85.3	87.2	91.4	93.3	94.1	94.4	95.1	95.4	95.7	95.9	95.9	97.3
2 600	36.4	69.9	78.3	81.3	85.5	87.6	91.9	94.1	94.9	95.4	96.0	96.3	96.7	96.8	96.8	98.2
2 400	36.4	69.9	78.3	81.3	85.5	87.6	91.9	94.1	94.9	95.5	96.2	96.5	96.8	97.0	97.0	98.4
2 200	36.4	69.9	78.3	81.3	85.5	87.6	91.9	94.1	94.9	95.5	96.3	96.7	97.0	97.3	97.3	99.8
2 1000	36.4	69.9	78.3	81.3	85.5	87.6	91.9	94.1	94.9	95.7	96.5	96.8	97.1	97.4	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS 627

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-68,76-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0600-0800

		VISIBILITY STATISTICS (MILES)																	
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
NO. OF RECORDS	20000	20.7	33.2	35.7	38.6	39.8	40.2	41.1	41.6	41.7	42.3	42.3	42.3	42.5	42.5	42.5	43.3		
2 2000		22.2	34.7	37.2	40.2	41.5	42.0	42.9	43.4	43.5	44.0	44.0	44.0	44.3	44.3	44.3	45.0		
2 1800		22.2	34.7	37.2	40.2	41.5	42.0	42.9	43.4	43.5	44.0	44.0	44.0	44.3	44.3	44.3	45.0		
2 1600		22.2	34.7	37.2	40.2	41.5	42.0	42.9	43.4	43.5	44.0	44.0	44.0	44.3	44.3	44.3	45.0		
2 1400		22.4	34.9	37.5	40.5	41.7	42.3	43.1	43.7	43.8	44.4	44.4	44.4	44.6	44.6	44.6	45.4		
2 1200		22.5	35.2	37.8	40.9	42.1	42.7	43.6	44.1	44.3	44.8	44.8	44.8	45.0	45.0	45.0	45.8		
2 1000		23.3	36.8	39.4	42.5	43.7	44.4	45.4	45.9	46.2	46.7	46.7	46.7	46.9	46.9	46.9	47.7		
2 900		25.0	39.4	42.1	45.1	46.5	47.2	48.2	48.7	48.9	49.6	49.6	49.6	49.8	49.8	49.8	50.6		
2 800		29.7	45.8	48.8	52.1	53.6	54.4	55.6	56.5	56.7	57.4	57.4	57.4	57.6	57.6	57.6	58.4		
2 700		31.8	49.1	52.1	55.9	57.9	58.5	59.9	60.8	61.0	61.6	61.6	61.8	62.0	62.0	62.0	62.8		
2 600		33.6	52.0	55.3	59.3	61.0	62.0	63.3	64.2	64.4	65.1	65.2	65.2	65.4	65.4	65.4	66.2		
2 500		35.2	53.8	57.5	61.8	63.5	64.5	65.9	66.9	67.3	68.2	68.3	68.3	68.6	68.6	68.6	69.3		
2 450		36.0	54.7	58.8	63.0	65.2	66.3	67.7	68.9	69.3	70.2	70.3	70.3	70.6	70.6	70.6	71.3		
2 400		37.6	57.1	61.3	65.6	68.2	69.3	71.0	72.2	72.8	73.9	74.0	74.0	74.4	74.4	74.4	75.1		
2 350		38.5	58.2	62.7	67.0	70.0	71.1	73.0	74.4	74.9	76.0	76.1	76.1	76.5	76.5	76.5	77.3		
2 300		39.8	59.8	64.2	68.7	71.8	72.9	74.8	76.5	77.0	78.3	78.6	78.6	79.0	79.0	79.0	79.8		
2 250		40.8	61.0	65.7	70.5	73.7	74.8	77.0	78.8	79.4	80.7	81.0	81.2	81.6	81.6	81.6	82.4		
2 200		41.6	62.2	67.1	72.1	75.6	76.8	79.0	80.8	81.4	82.8	83.2	83.3	83.7	83.7	83.7	84.5		
2 1800		41.7	62.4	67.3	72.5	76.1	77.4	79.6	81.5	82.1	83.5	83.8	83.9	84.4	84.4	84.4	85.2		
2 1500		42.3	63.5	68.6	73.8	77.8	79.2	81.5	83.5	84.1	85.5	85.8	86.0	86.5	86.5	86.5	87.3		
2 1200		43.1	65.4	70.8	76.1	80.8	82.3	84.7	87.0	87.5	89.1	89.4	89.5	90.1	90.1	90.1	90.9		
2 1000		43.5	66.0	71.8	77.3	82.4	83.8	86.4	88.6	89.3	90.9	91.2	91.3	92.0	92.0	92.0	92.8		
2 900		43.7	66.6	72.4	77.9	83.3	84.7	87.3	89.6	90.4	92.0	92.3	92.4	93.1	93.1	93.1	93.9		
2 800		43.8	67.0	73.1	79.2	84.6	86.4	89.0	91.3	92.1	93.6	94.0	94.1	94.8	94.8	94.8	95.5		
2 700		43.8	67.3	73.5	79.7	85.2	87.1	89.6	92.1	92.9	94.4	94.8	94.9	95.5	95.5	95.5	96.3		
2 600		43.8	67.4	73.6	79.9	85.5	87.4	90.1	92.5	93.3	94.9	95.2	95.4	96.1	96.1	96.1	96.9		
2 500		43.9	67.6	73.7	80.0	85.6	87.5	90.3	92.8	93.5	95.1	95.4	95.7	96.3	96.3	96.3	97.1		
2 400		44.0	67.7	73.9	80.3	86.1	88.0	90.7	93.4	94.3	96.1	96.4	96.7	97.3	97.3	97.3	98.1		
2 300		44.0	67.7	73.9	80.4	86.2	88.1	91.0	93.6	94.6	96.4	96.9	97.1	98.0	98.0	98.0	98.8		
2 200		44.0	67.7	73.9	80.4	86.2	88.1	91.0	93.6	94.6	96.5	97.0	97.2	98.3	98.4	98.4	99.2		
2 100		44.0	67.7	73.9	80.4	86.2	88.1	91.0	93.6	94.9	96.7	97.1	97.3	98.4	98.6	98.7	100.0		
2 00		44.0	67.7	73.9	80.4	86.2	88.1	91.0	93.6	94.9	96.7	97.1	97.3	98.4	98.6	98.7	100.0		

TOTAL NUMBER OF OBSERVATIONS 897

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7120  
STATION

SEMBACH AB DL

64-68,76-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING feet	VISIBILITY STATUTE MILES															
	≥ 10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	25.4	35.2	36.4	37.7	38.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
≥ 20000	27.2	37.1	38.3	39.6	40.6	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
≥ 18000	27.2	37.1	38.3	39.6	40.6	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
≥ 16000	27.2	37.1	38.3	39.6	40.6	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
≥ 14000	27.4	37.3	38.5	39.8	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 12000	28.0	38.1	39.3	40.6	41.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
≥ 11000	29.5	39.8	41.0	42.4	43.4	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥ 9000	31.3	41.9	43.3	44.7	45.9	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
≥ 8000	34.3	45.9	47.3	48.9	50.4	50.8	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 7000	36.5	49.1	50.9	52.7	54.2	54.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 6000	38.1	52.0	54.0	56.1	57.6	58.1	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 5000	40.7	54.8	56.9	59.2	60.7	61.1	61.3	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4
≥ 4500	42.2	57.1	59.5	61.9	63.7	64.2	64.4	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 4000	44.8	60.3	63.1	65.7	67.9	68.4	68.7	68.9	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 3500	48.9	64.8	67.9	70.5	72.7	73.3	73.6	73.8	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 3000	51.8	68.4	71.7	74.7	77.0	77.6	78.0	78.3	78.3	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 2500	55.1	73.2	76.5	79.4	81.8	82.4	82.8	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 2000	57.3	76.5	79.9	83.1	85.6	86.2	86.6	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1800	57.9	77.1	80.5	83.8	86.4	87.0	87.4	87.7	87.7	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1500	59.4	79.6	83.5	87.0	90.1	90.6	91.3	91.6	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 1200	60.2	81.1	85.2	88.9	92.0	92.7	93.2	93.7	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1000	60.6	81.6	86.1	90.0	93.3	94.0	94.7	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 900	60.6	82.0	86.4	90.3	93.9	94.6	95.4	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 800	60.9	82.3	86.8	90.6	94.6	95.4	96.3	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 700	60.9	82.5	87.2	91.2	95.3	96.1	97.2	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600	61.0	82.7	87.4	91.4	95.7	96.6	97.8	98.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 500	61.0	82.7	87.4	91.4	95.7	96.9	98.0	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 400	61.0	82.7	87.4	91.4	95.7	97.0	98.3	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	61.0	82.7	87.4	91.4	95.7	97.0	98.4	99.2	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0
≥ 200	61.0	82.7	87.4	91.4	95.7	97.0	98.4	99.2	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0
≥ 100	61.0	82.7	87.4	91.4	95.7	97.0	98.4	99.2	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0
≥ 0	61.0	82.7	87.4	91.4	95.7	97.0	98.4	99.2	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 987

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 712D SEMBACH AB DL

64-68,76-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS:

1200-1400

CEILING FEET	VISIBILITY IN MILES															
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	27.8	36.0	36.3	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
≥ 20000	29.9	38.1	38.4	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 18000	29.9	38.1	38.4	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 16000	29.9	38.1	38.4	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 14000	30.3	38.5	38.8	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 12000	30.7	39.0	39.3	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 10000	32.2	41.0	41.3	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 9000	35.4	44.2	44.5	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥ 8000	38.3	47.8	48.1	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 7000	40.7	51.0	51.5	51.8	52.0	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 6000	42.8	53.7	54.2	54.6	54.8	54.9	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 5000	46.3	57.3	57.8	58.2	58.4	58.5	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 4500	50.1	61.7	62.3	62.9	63.1	63.2	63.3	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 4000	56.4	68.3	69.1	69.8	70.1	70.3	70.4	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 3500	62.2	75.3	76.3	77.3	78.1	78.3	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3000	66.9	80.2	81.7	82.8	83.7	83.9	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 2500	68.9	83.3	85.1	86.4	87.4	87.6	87.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 2000	71.3	86.3	88.1	89.6	90.9	91.1	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 1800	71.7	87.0	88.9	90.4	91.7	91.9	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1500	73.1	88.8	91.1	92.7	94.3	94.5	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1200	74.0	89.8	92.4	94.1	95.9	96.1	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1000	74.1	90.0	92.6	94.3	96.3	96.5	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	74.2	90.2	93.0	94.7	96.7	96.9	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 800	74.4	90.4	93.2	94.9	97.0	97.2	97.5	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 700	74.6	90.6	93.6	95.5	97.7	97.9	98.2	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600	74.6	90.6	93.6	95.5	97.9	98.1	98.4	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500	74.6	90.6	93.6	95.5	98.1	98.3	98.7	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400	74.6	90.6	93.6	95.5	98.1	98.4	98.9	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	74.6	90.6	93.6	95.5	98.1	98.4	98.9	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	74.6	90.6	93.6	95.5	98.1	98.4	98.9	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	74.6	90.6	93.6	95.5	98.1	98.4	98.9	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	74.6	90.6	93.6	95.5	98.1	98.4	98.9	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 990

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SEMBACH AB DL

64-68,76-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005
NO. CEILING	31.7	37.2	37.7	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
≥ 20000	36.1	42.0	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 18000	36.4	42.4	42.9	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥ 16000	36.4	42.4	42.9	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥ 14000	36.6	42.6	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 12000	37.9	44.1	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 10000	41.3	48.0	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 9000	43.6	50.7	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 8000	48.5	56.4	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 7000	52.5	61.0	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 6000	55.9	65.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 5000	60.0	69.5	70.4	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 4500	63.1	73.5	74.6	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 4000	68.3	79.5	80.7	81.2	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 3500	72.2	83.7	85.1	85.6	85.8	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000	75.5	87.6	89.0	89.5	89.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 2500	77.0	89.6	91.4	91.9	92.1	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2000	78.0	91.3	93.4	93.9	94.1	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 1800	78.5	91.9	94.0	94.6	94.8	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1500	79.2	92.7	95.1	95.8	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1200	79.3	93.0	95.6	96.5	96.7	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1000	79.4	93.2	95.8	96.7	97.1	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	79.4	93.4	96.0	97.0	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 800	79.5	93.5	96.1	97.2	97.8	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 700	79.5	93.6	96.4	97.5	98.4	98.6	98.7	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 600	79.5	93.6	96.4	97.5	98.4	99.1	99.2	99.2	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7
≥ 500	79.5	93.6	96.4	97.5	98.4	99.1	99.2	99.3	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0
≥ 400	79.5	93.6	96.4	97.5	98.4	99.1	99.3	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 300	79.5	93.6	96.4	97.5	98.4	99.1	99.3	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 200	79.5	93.6	96.4	97.5	98.4	99.1	99.3	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 100	79.5	93.6	96.4	97.5	98.4	99.1	99.3	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 0	79.5	93.6	96.4	97.5	98.4	99.1	99.3	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 984

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7122 SEMBACH AB DL

64-68, 76-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1800-2000

CEILING	37.7	44.9	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
2 2000	41.2	48.9	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
2 1800	41.3	49.0	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2 1600	41.3	49.0	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2 1400	42.2	50.0	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
2 1200	43.9	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
2 1000	46.8	55.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2 900	49.7	58.7	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
2 800	54.1	64.2	65.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
2 700	58.5	69.3	70.8	71.0	71.1	71.1	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2
2 600	62.1	74.3	75.7	76.2	76.3	76.3	76.3	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4
2 500	66.4	79.3	80.8	81.4	81.5	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2 400	69.3	82.5	84.1	84.7	84.8	84.8	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2 300	72.3	86.5	88.1	88.7	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9
2 200	73.4	87.9	90.0	90.5	90.6	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7
2 1800	75.1	90.1	92.2	93.0	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
2 1600	75.8	91.0	93.3	94.1	94.4	94.4	94.4	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6
2 1400	76.3	91.9	94.4	95.4	95.6	95.7	95.7	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
2 1200	76.3	92.1	94.7	95.7	95.9	96.0	96.0	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2 1000	76.5	92.8	95.6	96.7	97.0	97.1	97.1	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 900	76.5	92.8	95.7	97.0	97.3	97.4	97.4	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
2 800	76.5	92.8	95.7	97.0	97.3	97.4	97.4	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7
2 700	76.6	92.9	95.8	97.1	97.7	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
2 600	76.6	92.9	95.8	97.1	97.7	97.9	97.9	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
2 500	76.6	92.9	95.8	97.3	98.2	98.3	98.3	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
2 400	76.6	92.9	95.8	97.3	98.4	98.5	98.5	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2 300	76.6	92.9	95.8	97.3	98.5	98.6	99.0	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 200	76.6	92.9	95.8	97.3	98.5	98.6	99.0	99.4	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8
2 1800	76.6	92.9	95.8	97.3	98.5	98.6	99.0	99.4	99.7	99.8	99.9	99.9	99.9	100.0	100.0	100.0
2 1600	76.6	92.9	95.8	97.3	98.5	98.6	99.0	99.4	99.7	99.8	99.9	99.9	99.9	100.0	100.0	100.0
2 1400	76.6	92.9	95.8	97.3	98.5	98.6	99.0	99.4	99.7	99.8	99.9	99.9	99.9	100.0	100.0	100.0
2 1200	76.6	92.9	95.8	97.3	98.5	98.6	99.0	99.4	99.7	99.8	99.9	99.9	99.9	100.0	100.0	100.0
2 1000	76.6	92.9	95.8	97.3	98.5	98.6	99.0	99.4	99.7	99.8	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 886

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

17120

SEMBACH AB DL

64-68,76-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	33.7	48.7	49.6	49.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.9	50.9	51.1
≥ 2000	35.8	51.3	52.1	52.3	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.6	53.6	53.8
≥ 1800	35.9	51.4	52.3	52.4	53.4	53.4	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.7	53.7	54.0
≥ 1600	35.9	51.4	52.3	52.4	53.4	53.4	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.7	53.7	54.0
≥ 1400	36.1	51.7	52.6	52.7	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	54.0	54.0	54.3
≥ 1200	36.5	52.3	53.1	53.3	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.5	54.5	54.8
≥ 1000	38.1	54.4	55.3	55.4	56.4	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.7	56.7	57.0
≥ 900	39.9	58.0	58.9	59.1	60.2	60.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.7	60.7	60.9
≥ 800	43.6	63.5	65.1	65.2	66.3	66.3	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.8	66.8	67.0
≥ 700	47.3	68.9	70.9	71.0	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.7	72.7	73.0	73.0	73.3
≥ 600	49.1	72.2	74.4	74.6	75.9	76.1	76.4	76.4	76.4	76.4	76.4	76.6	76.6	76.6	76.8	77.1
≥ 500	51.1	76.0	79.4	80.0	81.5	81.8	82.1	82.1	82.1	82.1	82.1	82.2	82.2	82.2	82.5	82.8
≥ 450	52.1	77.6	81.1	81.7	83.2	83.7	83.9	83.9	83.9	83.9	83.9	84.1	84.1	84.1	84.4	84.7
≥ 400	53.8	79.8	83.4	84.1	85.7	86.1	86.4	86.4	86.4	86.4	86.4	86.5	86.5	86.5	86.8	87.1
≥ 350	54.5	81.0	84.8	85.7	87.4	87.8	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.5	88.8
≥ 300	55.5	82.8	86.9	87.8	89.6	90.1	90.3	90.3	90.3	90.3	90.3	90.5	90.5	90.5	90.8	91.1
≥ 250	56.0	83.7	87.9	88.9	90.9	91.3	91.9	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.3	92.6
≥ 200	56.4	84.9	89.3	90.3	92.9	93.3	94.0	94.0	94.0	94.0	94.0	94.2	94.2	94.2	94.5	94.7
≥ 1800	56.7	85.2	89.6	90.6	93.3	93.8	94.5	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.9	95.2
≥ 1600	57.1	85.9	90.6	91.6	94.3	94.7	95.5	95.5	95.5	95.5	95.5	95.6	95.6	95.6	95.9	96.2
≥ 1400	57.1	85.9	90.6	92.0	95.0	95.5	96.4	96.4	96.4	96.4	96.4	96.6	96.6	96.6	96.9	97.2
≥ 1200	57.2	86.1	90.9	92.2	95.3	95.7	96.7	96.7	96.7	96.7	96.9	97.0	97.0	97.0	97.3	97.6
≥ 1000	57.2	86.1	90.9	92.2	95.5	95.9	96.9	96.9	96.9	97.0	97.2	97.2	97.2	97.4	97.4	97.7
≥ 900	57.2	86.1	91.1	92.3	95.7	96.2	97.2	97.2	97.2	97.2	97.3	97.4	97.4	97.4	97.7	98.0
≥ 800	57.2	86.1	91.1	92.3	95.9	96.3	97.4	97.4	97.4	97.4	97.6	97.7	97.7	97.7	98.0	98.3
≥ 700	57.2	86.1	91.1	92.3	96.2	96.6	97.7	97.7	97.7	97.7	97.9	98.0	98.0	98.0	98.3	98.6
≥ 600	57.2	86.1	91.1	92.3	96.6	97.2	98.3	98.3	98.3	98.4	98.6	98.7	98.7	98.7	99.0	99.3
≥ 500	57.2	86.1	91.1	92.6	96.7	97.2	98.3	98.3	98.4	98.6	98.7	98.9	98.9	98.9	99.1	99.4
≥ 400	57.2	86.1	91.1	92.6	96.7	97.2	98.3	98.6	98.7	98.9	99.0	99.0	99.0	99.3	99.3	99.6
≥ 300	57.2	86.1	91.1	92.6	96.7	97.2	98.3	98.6	98.7	98.9	99.0	99.1	99.1	99.6	99.6	99.9
≥ 200	57.2	86.1	91.1	92.6	96.7	97.2	98.3	98.7	98.9	99.0	99.1	99.3	99.3	99.7	99.7	100.0
≥ 100	57.2	86.1	91.1	92.6	96.7	97.2	98.3	98.7	98.9	99.0	99.1	99.3	99.3	99.7	99.7	100.0
≥ 0	57.2	86.1	91.1	92.6	96.7	97.2	98.3	98.7	98.9	99.0	99.1	99.3	99.3	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 709



2

## CEILING VERSUS VISIBILITY

SEMBACH AB DL

64-68, 76-81

JUL

ALL

INCHES FEELING																
NO. FEELING FEET	≥10	≥20	≥3	≥4	≥5	≥6	≥7	≥8	≥9	≥10	≥11	≥12	≥13	≥14	≥15	≥16
NO. FEELING ≥ 70000	27.9 30.2	39.8 42.3	41.1 43.6	42.0 44.5	42.7 45.2	42.7 45.3	43.0 45.6	43.2 45.8	43.3 45.9	43.4 46.0	43.5 46.1	43.5 46.1	43.5 46.1	43.6 46.2	43.6 46.2	43.9 46.5
≥ 18000 ≥ 16000	30.3 30.3	42.4 42.4	43.7 43.7	44.6 44.6	45.3 45.3	45.4 45.4	45.7 45.7	45.9 45.9	46.0 46.0	46.1 46.1	46.2 46.2	46.2 46.2	46.2 46.2	46.3 46.3	46.3 46.3	46.6 46.6
≥ 14000 ≥ 12000	30.6 31.2	42.7 43.5	44.0 44.8	44.9 45.8	45.6 46.4	45.7 46.5	46.0 46.9	46.3 47.1	46.4 47.2	46.5 47.3	46.5 47.4	46.6 47.4	46.6 47.4	46.6 47.5	46.6 47.5	46.9 47.8
≥ 10000 ≥ 9000	33.0 35.1	45.7 48.6	47.1 50.0	48.0 51.0	48.7 51.7	48.8 51.9	49.2 52.2	49.4 52.4	49.5 52.6	49.6 52.7	49.7 52.8	49.7 52.8	49.7 52.8	49.8 52.9	49.8 52.9	50.1 53.2
≥ 8000 ≥ 7000	38.9 41.7	54.0 57.9	55.7 59.9	56.7 61.0	57.6 61.9	57.8 62.2	58.2 62.7	58.5 63.0	58.6 63.1	58.7 63.2	58.8 63.3	58.8 63.4	58.8 63.5	58.9 63.5	58.9 63.5	59.2 63.8
≥ 6000 ≥ 5000	43.9 46.7	61.2 64.6	63.4 67.1	64.7 68.5	65.6 69.6	65.9 69.9	66.5 70.4	66.7 70.7	66.8 70.9	67.0 71.1	67.1 71.2	67.2 71.3	67.2 71.3	67.2 71.3	67.2 71.3	67.5 71.6
≥ 4500 ≥ 4000	48.8 51.7	67.4 70.9	70.0 73.7	71.9 75.4	72.7 76.8	73.1 77.1	73.6 77.8	74.0 78.2	74.2 78.4	74.4 78.6	74.5 78.7	74.5 78.7	74.6 78.8	74.6 78.9	74.6 78.9	74.9 79.2
≥ 3500 ≥ 3000	54.3 56.5	74.0 76.6	77.1 79.9	78.9 81.8	80.4 83.4	80.8 83.8	81.5 84.5	81.9 85.0	82.1 85.2	82.3 85.5	82.4 85.6	82.5 85.6	82.5 85.7	82.6 85.8	82.6 85.8	82.9 86.1
≥ 2500 ≥ 2000	57.9 59.0	78.6 80.3	82.0 83.9	84.0 86.0	85.7 87.9	86.2 88.4	86.9 89.2	87.5 89.8	87.6 90.0	87.9 90.2	88.0 90.4	88.1 90.5	88.2 90.6	88.2 90.6	88.2 90.6	88.5 90.9
≥ 1800 ≥ 1500	59.2 59.9	80.7 81.9	84.4 85.8	86.5 88.1	88.5 90.3	89.0 90.8	89.8 91.7	90.4 92.3	90.6 92.5	90.9 92.8	91.0 92.9	91.0 93.0	91.1 93.1	91.2 93.1	91.2 93.1	91.5 93.4
≥ 1200 ≥ 1000	60.4 60.5	82.7 83.0	86.8 87.3	89.3 89.8	91.6 92.3	92.2 92.9	93.2 94.0	93.8 94.6	94.0 94.8	94.3 95.2	94.5 95.3	94.5 95.4	94.6 95.5	94.7 95.5	94.7 95.5	95.0 95.8
≥ 900 ≥ 800	60.6 60.7	83.2 83.4	87.9 87.9	90.1 90.6	92.7 93.4	93.4 94.1	94.5 95.2	95.2 95.9	95.4 96.1	95.7 96.5	95.9 96.6	95.9 96.7	96.1 96.8	96.1 96.9	96.1 96.9	96.4 97.2
≥ 700 ≥ 600	60.8 60.8	83.6 83.7	88.2 88.2	90.9 91.0	93.9 94.3	94.6 95.0	95.8 96.3	96.6 97.1	96.9 97.4	97.2 97.8	97.4 97.9	97.6 98.0	97.6 98.1	97.6 98.2	97.6 98.2	97.9 98.5
≥ 500 ≥ 400	60.8 60.8	83.7 83.7	88.3 88.3	91.0 91.1	94.4 94.5	95.2 95.3	96.6 96.7	97.4 97.7	97.7 98.0	98.1 98.4	98.3 98.6	98.3 98.7	98.5 98.8	98.5 98.8	98.5 98.8	98.8 99.2
≥ 300 ≥ 200	60.8 60.8	83.7 83.7	88.3 88.3	91.1 91.1	94.5 94.5	95.4 95.4	96.9 96.9	97.9 97.9	98.3 98.3	98.7 99.0	98.9 99.1	99.0 99.3	99.2 99.3	99.2 99.4	99.2 99.4	99.5 99.7
≥ 100 0	60.8 60.8	83.7 83.7	88.3 88.3	91.1 91.1	94.5 94.5	95.4 95.4	96.9 96.9	97.9 97.9	98.3 98.3	98.8 99.0	99.1 99.1	99.3 99.3	99.4 99.4	99.4 99.5	99.4 99.5	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 6574

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

17120

SENBACH AB DL

64-68,78

AVG

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0000-0200

CEILING FEET	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
≥ 20000	18.2	42.9	46.0	50.4	53.8	54.4	56.1	56.5	56.9	57.5	57.7	57.7	57.9	58.2	58.6	60.0												
≥ 18000	18.4	43.1	46.2	50.6	54.0	54.6	56.5	57.3	57.7	58.4	58.6	58.6	59.0	59.2	59.6	61.1												
≥ 16000	18.4	43.1	46.2	50.6	54.0	54.6	56.5	57.3	57.7	58.4	58.6	58.6	59.0	59.2	59.6	61.1												
≥ 14000	18.4	43.1	46.2	50.6	54.0	54.6	56.5	57.3	57.7	58.4	58.6	58.6	59.0	59.2	59.6	61.1												
≥ 12000	18.8	43.5	46.7	51.0	54.4	55.0	56.9	57.7	58.2	58.8	59.0	59.0	59.4	59.6	60.0	61.5												
≥ 10000	19.7	45.4	48.5	52.9	56.3	56.9	58.8	59.6	60.0	60.7	60.9	60.9	61.3	61.5	61.9	63.4												
≥ 8000	20.5	48.1	51.5	55.9	59.2	59.8	61.7	62.6	63.0	63.6	63.8	63.8	64.2	64.4	64.9	66.3												
≥ 7000	23.4	54.2	57.7	62.1	65.9	66.5	68.4	69.2	69.7	70.3	70.9	70.9	71.3	71.5	72.0	73.4												
≥ 6000	23.6	58.4	61.9	66.3	70.1	70.7	72.6	73.4	73.8	74.5	75.1	75.1	75.5	75.7	76.2	77.6												
≥ 5000	24.1	61.1	65.1	70.1	74.1	74.9	77.2	78.0	78.5	79.1	79.7	79.7	80.1	80.3	80.8	82.2												
≥ 4500	24.7	62.1	66.1	71.5	75.7	76.6	78.9	79.7	80.1	80.8	81.4	81.4	81.8	82.0	82.4	83.9												
≥ 4000	25.3	63.2	67.4	73.0	77.2	78.0	80.5	81.4	81.8	82.4	83.1	83.1	83.5	83.7	84.1	85.6												
≥ 3500	25.9	64.2	68.6	74.5	78.7	79.7	82.2	83.1	83.5	84.1	84.7	84.7	85.1	85.4	85.8	87.2												
≥ 3000	26.2	64.9	69.5	75.1	79.3	80.3	82.8	83.7	84.1	84.9	85.6	85.6	86.0	86.2	86.6	88.1												
≥ 2500	26.2	64.9	69.5	75.1	79.3	80.3	83.1	83.9	84.5	85.4	86.0	86.0	86.4	86.6	87.0	88.5												
≥ 2000	26.2	65.1	70.1	75.7	79.9	81.0	83.7	84.7	85.6	86.4	87.0	87.0	87.4	87.9	88.3	89.7												
≥ 1800	26.4	66.1	71.1	76.8	81.0	82.0	85.1	86.2	87.0	87.9	88.5	88.5	89.1	89.3	89.7	91.2												
≥ 1600	26.4	66.3	71.8	77.6	81.8	82.8	86.0	87.0	87.9	88.7	89.3	89.3	90.0	90.2	90.6	92.1												
≥ 1400	26.6	66.5	72.0	77.8	82.0	83.1	86.4	87.4	88.3	89.1	89.7	89.7	90.4	90.6	91.0	92.5												
≥ 1200	26.6	67.2	72.8	78.7	83.1	84.1	87.7	88.7	89.5	90.4	91.0	91.0	91.6	91.8	92.3	93.7												
≥ 1000	26.6	67.6	73.2	79.3	83.7	84.7	88.3	89.7	90.6	91.4	92.1	92.1	92.9	93.1	93.5	95.0												
≥ 900	26.6	67.8	73.4	79.5	83.9	84.9	88.5	90.0	90.8	91.6	92.3	92.3	93.1	93.3	93.7	95.2												
≥ 800	26.6	67.8	73.4	79.9	84.3	85.4	88.9	90.4	91.2	92.1	92.7	92.9	93.5	93.7	94.1	95.6												
≥ 700	26.6	67.8	73.4	79.9	84.5	85.6	89.3	91.2	92.1	93.1	93.7	93.9	94.6	94.8	95.2	96.7												
≥ 600	27.0	68.4	74.1	80.5	85.1	86.2	90.0	92.1	92.9	93.9	94.6	94.8	95.4	95.6	96.0	97.5												
≥ 500	27.0	68.4	74.1	80.5	85.8	86.8	90.8	93.1	93.9	95.0	95.6	95.8	96.4	96.7	97.1	98.5												
≥ 400	27.0	68.4	74.1	80.5	85.8	86.8	90.8	93.1	93.9	95.0	95.6	95.8	96.4	96.7	97.1	98.5												
≥ 300	27.0	68.4	74.1	80.5	86.2	87.2	91.2	93.5	94.4	95.4	96.0	96.2	96.9	97.1	97.5	99.0												
≥ 200	27.0	68.4	74.1	80.5	86.2	87.2	91.2	93.5	94.4	95.4	96.0	96.2	96.9	97.1	97.5	99.0												
≥ 100	27.0	68.4	74.1	80.5	86.2	87.2	91.2	93.5	94.4	95.4	96.0	96.2	96.9	97.1	97.5	100.0												
≥ 0	27.0	68.4	74.1	80.5	86.2	87.2	91.2	93.5	94.4	95.4	96.0	96.2	96.9	97.1	97.5	100.0												

TOTAL NUMBER OF OBSERVATIONS 978

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SENBACH AB DL

64-68,77-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0300-0500

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	20	24	24	20	27	24	27	24	27	24	27	24	27	24	27
NO CEILING	17.4	31.1	34.9	37.5	41.0	41.8	43.6	45.6	46.4	47.3	47.6	47.8	47.8	48.3	48.8	51.4
≥ 20000	18.0	31.7	35.9	38.5	42.0	42.8	44.6	46.6	47.4	48.3	48.8	48.9	48.9	49.4	49.9	53.4
≥ 18000	18.0	31.7	35.9	38.5	42.0	42.8	44.6	46.6	47.4	48.3	48.8	48.9	48.9	49.4	49.9	53.4
≥ 16000	18.0	31.7	35.9	38.5	42.0	42.8	44.6	46.6	47.4	48.3	48.8	48.9	48.9	49.4	49.9	53.4
≥ 14000	18.0	31.7	35.9	38.5	42.0	42.8	44.6	46.6	47.4	48.3	48.8	48.9	48.9	49.4	49.9	53.4
≥ 12000	18.0	31.7	35.9	38.5	42.0	42.8	44.6	46.6	47.4	48.3	48.8	48.9	48.9	49.4	49.9	53.4
≥ 10000	19.5	34.2	38.3	41.2	44.6	45.5	47.4	49.6	50.4	51.2	51.7	51.9	52.1	52.7	53.2	56.7
≥ 9000	20.7	36.9	41.0	43.8	47.6	48.6	50.7	52.9	53.7	54.5	55.0	55.2	55.4	56.0	56.5	60.0
≥ 8000	22.6	41.3	45.5	48.3	52.2	53.2	55.4	57.5	58.3	59.2	59.7	59.8	60.0	60.7	61.3	65.1
≥ 7000	22.8	44.1	48.3	51.2	55.7	56.7	58.8	61.2	62.0	62.8	63.3	63.5	63.6	64.3	65.0	68.8
≥ 6000	23.5	48.1	52.2	55.2	59.7	60.7	62.8	65.5	66.6	67.6	68.3	68.4	68.6	69.3	69.9	73.7
≥ 5000	23.5	48.8	53.2	56.2	60.7	61.7	64.0	66.6	67.8	68.8	69.4	69.6	69.8	70.4	71.1	74.9
≥ 4500	23.6	49.3	54.2	57.2	62.0	63.0	65.3	67.9	69.1	70.1	70.7	71.1	71.2	71.9	72.6	76.4
≥ 4000	24.6	50.9	56.9	59.8	64.8	66.1	68.8	71.9	73.1	74.0	74.7	75.0	75.2	75.9	76.5	80.3
≥ 3500	24.8	51.4	57.4	60.3	65.5	66.8	69.8	72.9	74.0	75.0	75.7	76.0	76.2	76.9	77.5	81.3
≥ 3000	25.0	51.9	57.9	60.8	66.4	67.9	71.1	74.5	75.7	76.7	77.4	77.7	77.9	78.7	79.3	83.1
≥ 2500	25.1	52.6	58.5	61.7	67.3	68.8	72.1	75.7	76.9	77.9	78.5	78.8	79.0	79.8	80.5	84.3
≥ 2000	25.8	54.0	60.2	63.3	68.9	70.4	73.9	77.5	78.7	79.8	80.5	80.8	81.0	81.8	82.5	86.3
≥ 1800	25.8	54.2	60.3	63.6	69.3	70.7	74.2	77.9	79.0	80.2	80.8	81.2	81.3	82.1	82.8	86.6
≥ 1500	26.1	55.0	61.3	64.6	70.2	71.7	75.2	79.0	80.3	81.5	82.1	82.5	82.6	83.5	84.1	87.9
≥ 1200	26.4	55.7	62.3	66.1	71.9	73.6	77.4	81.3	82.6	83.8	84.5	84.8	85.0	85.8	86.4	90.2
≥ 1000	26.4	56.2	63.0	67.1	72.9	74.5	78.5	83.1	84.5	85.6	86.3	86.6	86.8	87.6	88.3	92.1
≥ 900	26.4	56.2	63.1	67.3	73.1	74.9	78.8	83.5	84.8	86.0	86.6	86.9	87.1	87.9	88.6	92.4
≥ 800	26.4	56.4	63.5	67.9	73.9	75.9	79.8	84.5	85.8	86.9	87.6	87.9	88.1	88.9	89.6	93.4
≥ 700	26.4	56.4	63.5	68.1	74.0	76.0	80.0	84.8	86.1	87.3	87.9	88.3	88.4	89.3	89.9	93.7
≥ 600	26.4	56.4	63.5	68.1	74.2	76.2	80.2	85.0	86.4	87.6	88.3	88.6	88.8	89.6	90.2	94.0
≥ 500	26.4	56.4	63.5	68.1	74.9	76.9	81.2	86.0	87.4	88.8	89.4	89.8	89.9	90.7	91.4	95.2
≥ 400	26.4	56.4	63.5	68.3	75.0	77.0	81.5	86.3	87.8	89.1	89.8	90.1	90.2	91.1	91.7	95.5
≥ 300	26.4	56.4	63.5	68.3	75.2	77.2	81.7	86.6	88.1	89.4	90.2	90.6	90.7	91.6	92.2	96.0
≥ 200	26.4	56.4	63.5	68.3	75.2	77.2	81.7	86.8	88.3	89.6	90.9	91.4	91.7	92.7	93.4	97.2
≥ 100	26.4	56.4	63.5	68.3	75.2	77.2	81.7	86.8	88.3	89.6	90.9	91.4	91.9	93.1	93.9	99.0
≥ 0	26.4	56.4	63.5	68.3	75.2	77.2	81.7	86.8	88.3	89.6	90.9	91.6	92.1	93.4	94.4	100.0

TOTAL NUMBER OF OBSERVATIONS 605

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-68,76-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

J600-0800

CEILING FEET	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
NO. OF OBS.	20.7	28.3	30.9	33.6	37.3	38.2	39.3	40.6	41.4	42.1	42.6	42.6	42.7	43.2	43.3	45.3	
200-250	22.2	30.0	32.6	35.5	39.5	40.4	41.6	42.9	43.8	44.7	45.2	45.2	45.6	46.0	46.1	48.7	
250-300	22.2	30.0	32.6	35.5	39.5	40.4	41.6	42.9	43.8	44.7	45.2	45.2	45.6	46.0	46.1	48.7	
300-350	22.2	30.0	32.6	35.5	39.5	40.4	41.6	42.9	43.8	44.7	45.2	45.2	45.6	46.0	46.1	48.7	
350-400	22.2	30.0	32.6	35.5	39.5	40.4	41.6	42.9	43.8	44.7	45.2	45.2	45.6	46.0	46.1	48.7	
400-450	22.9	30.9	33.6	36.5	40.6	41.5	42.7	44.0	45.0	45.9	46.4	46.4	46.8	47.2	47.3	49.9	
450-500	24.5	33.4	36.3	39.4	44.0	44.9	46.1	47.8	48.8	49.7	50.3	50.3	50.6	51.2	51.3	54.0	
500-550	25.5	34.9	37.9	41.1	46.1	47.2	48.5	50.6	51.8	52.8	53.3	53.3	53.7	54.2	54.3	57.1	
550-600	28.5	39.5	43.0	46.4	51.9	53.1	54.7	56.7	57.9	59.3	59.9	59.9	60.2	60.8	60.9	63.9	
600-650	29.1	40.9	44.7	48.1	53.8	55.0	56.8	58.9	60.2	61.6	62.2	62.2	62.5	63.1	63.2	66.3	
650-700	29.9	42.6	46.7	50.3	56.1	57.3	59.1	61.2	62.5	63.9	64.5	64.5	64.8	65.4	65.5	68.6	
700-750	30.8	43.9	48.0	52.0	58.1	59.3	61.2	63.3	64.6	65.9	66.6	66.6	66.9	67.5	67.6	70.6	
750-800	31.4	45.2	49.6	53.7	59.7	60.9	63.1	65.3	66.7	68.1	68.8	68.8	69.1	69.7	69.8	72.8	
800-850	33.7	47.6	52.2	56.4	62.7	63.9	66.3	68.6	70.1	71.5	72.2	72.2	72.5	73.1	73.2	76.2	
850-900	33.3	48.3	53.3	57.7	64.1	65.3	67.8	70.1	71.6	73.2	73.8	73.8	74.2	74.7	74.8	77.9	
900-950	34.3	50.2	55.3	59.9	66.4	67.6	70.3	72.8	74.4	75.9	76.7	76.7	77.1	77.7	77.8	80.8	
950-1000	34.9	51.3	56.4	61.2	67.8	69.0	71.7	74.3	75.8	77.3	78.1	78.1	78.5	79.1	79.2	82.3	
1000-1100	35.8	52.7	57.9	63.1	69.8	71.0	73.8	76.3	77.9	79.4	80.2	80.2	80.6	81.2	81.3	84.3	
1100-1200	35.8	52.8	58.1	63.2	69.9	71.1	73.9	76.5	78.0	79.5	80.3	80.3	80.7	81.3	81.4	84.4	
1200-1300	35.9	53.0	58.4	63.6	70.3	71.6	74.8	77.4	79.1	80.6	81.5	81.5	81.9	82.5	82.6	85.7	
1300-1400	36.0	53.8	59.6	65.1	72.0	73.5	76.9	79.6	81.4	82.9	83.8	83.8	84.2	84.8	84.9	88.0	
1400-1500	36.5	54.7	60.9	66.6	74.0	75.7	79.4	82.4	84.1	85.9	86.7	86.7	87.2	87.7	87.8	90.9	
1500-1600	36.5	54.8	61.0	66.7	74.2	75.9	79.8	82.9	84.9	86.9	87.7	87.7	88.2	88.8	88.9	92.0	
1600-1700	36.6	54.9	61.3	67.5	75.1	77.1	81.2	84.7	86.6	88.6	89.5	89.5	89.9	90.7	90.8	93.9	
1700-1800	36.6	55.0	61.6	67.8	75.6	77.5	81.6	85.5	87.5	89.5	90.4	90.4	90.9	91.7	91.8	94.9	
1800-1900	36.6	55.2	61.8	68.0	76.1	78.2	82.3	86.5	88.5	90.8	91.7	91.7	92.2	93.0	93.1	96.1	
1900-2000	36.6	55.2	61.9	68.5	77.0	79.1	83.4	87.8	89.9	92.2	93.1	93.1	93.6	94.4	94.5	97.7	
2000-2100	36.6	55.2	61.9	68.5	77.0	79.1	83.4	88.0	90.0	92.3	93.2	93.2	93.8	94.5	94.6	97.9	
2100-2200	36.6	55.2	61.9	68.5	77.0	79.1	83.4	88.0	90.0	92.3	93.3	93.3	94.1	94.9	95.0	98.2	
2200-2300	36.6	55.2	61.9	68.5	77.0	79.1	83.4	88.0	90.0	92.6	93.8	93.8	94.7	95.6	95.8	99.6	
2300-2400	36.6	55.2	61.9	68.5	77.0	79.1	83.4	88.0	90.0	92.6	93.8	93.8	94.7	95.6	95.8	99.9	
2400-2500	36.6	55.2	61.9	68.5	77.0	79.1	83.4	88.0	90.0	92.6	93.8	93.8	94.7	95.6	95.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 913

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-68,76-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0900-1100

1-1000	23.6	33.7	36.3	38.6	41.1	41.4	41.7	41.8	41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9
1-1000	25.7	36.2	39.1	41.5	44.0	44.5	44.8	45.0	45.0	45.1	45.1	45.1	45.1	45.1	45.1	45.1
1-1000	25.8	36.3	39.2	41.6	44.1	44.6	44.9	45.1	45.1	45.2	45.2	45.2	45.2	45.2	45.2	45.2
1-1000	25.8	36.3	39.2	41.6	44.1	44.6	44.9	45.1	45.1	45.2	45.2	45.2	45.2	45.2	45.2	45.2
1-1000	26.1	36.6	39.5	42.0	44.6	45.1	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7
1-1000	26.3	37.2	40.1	42.6	45.3	45.8	46.1	46.3	46.3	46.4	46.4	46.4	46.4	46.4	46.4	46.4
1-1000	26.8	38.7	41.8	44.4	47.2	47.8	48.1	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5
1-1000	27.9	40.4	43.5	46.2	49.0	49.6	49.9	50.1	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2
1-1000	30.2	44.8	48.5	51.5	54.6	55.2	55.7	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1
1-1000	32.3	47.3	50.9	54.3	57.7	58.3	58.8	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2
1-1000	33.6	49.0	52.7	56.3	59.7	60.4	60.9	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3
1-1000	35.4	50.8	54.6	58.2	61.8	62.5	63.1	63.4	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6
1-1000	37.1	52.6	56.5	60.1	63.8	64.5	65.2	65.5	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7
1-1000	39.5	55.8	59.8	63.8	67.7	68.4	69.1	69.4	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8
1-1000	41.2	58.2	62.4	66.6	70.6	71.4	72.2	72.5	72.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9
1-1000	44.9	62.7	67.4	71.6	76.2	77.1	77.8	78.1	78.3	78.5	78.5	78.5	78.5	78.5	78.5	78.5
1-1000	46.1	64.8	70.0	74.5	79.1	79.9	80.7	81.0	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4
1-1000	47.4	67.2	72.5	77.3	82.2	83.0	83.8	84.1	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5
1-1000	48.2	68.3	73.7	78.6	83.5	84.3	85.2	85.5	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9
1-1000	48.8	69.3	74.9	80.0	85.0	85.8	86.8	87.1	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5
1-1000	49.7	70.7	77.1	82.9	88.2	89.0	90.5	90.9	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3
1-1000	49.9	71.2	77.8	83.7	89.2	90.0	91.0	92.3	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9
1-1000	50.0	71.4	78.1	84.1	89.8	90.6	92.5	93.2	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
1-1000	50.2	71.8	78.6	84.8	90.5	91.5	93.7	94.4	94.6	95.0	95.1	95.1	95.1	95.1	95.1	95.1
1-1000	50.4	72.2	79.1	85.6	91.5	92.6	95.1	96.2	96.4	97.0	97.1	97.1	97.2	97.2	97.2	97.2
1-1000	50.4	72.2	79.2	86.1	92.2	93.3	96.0	97.4	97.9	98.5	98.6	98.6	98.7	98.7	98.7	98.7
1-1000	50.4	72.2	79.2	86.2	92.4	93.5	96.2	98.0	98.5	99.2	99.4	99.4	99.5	99.5	99.5	99.5
1-1000	50.4	72.2	79.2	86.2	92.4	93.5	96.3	98.1	98.6	99.3	99.5	99.5	99.6	99.6	99.6	99.6
1-1000	50.4	72.2	79.2	86.2	92.4	93.5	96.3	98.1	98.6	99.3	99.5	99.6	99.7	99.8	99.8	99.9
1-1000	50.4	72.2	79.2	86.2	92.4	93.5	96.3	98.1	98.6	99.3	99.5	99.6	99.7	99.8	99.8	100.0
1-1000	50.4	72.2	79.2	86.2	92.4	93.5	96.3	98.1	98.6	99.3	99.5	99.6	99.7	99.8	99.8	100.0
1-1000	50.4	72.2	79.2	86.2	92.4	93.5	96.3	98.1	98.6	99.3	99.5	99.6	99.7	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 1005

USAF ETAC 0-14-5 (OL A) (REV 1) (1-1-64) (FORM 1005 OBSOLETE)

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-68,76-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	26	28	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	25.9	32.5	33.9	34.7	35.1	35.2	35.2	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
≥ 2000	28.9	36.2	37.6	38.4	38.8	38.9	38.9	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 1800	29.1	36.4	37.8	38.6	39.0	39.1	39.1	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 1600	29.1	36.4	37.8	38.6	39.0	39.1	39.1	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 1400	29.4	36.9	38.3	39.1	39.5	39.6	39.6	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
≥ 1200	29.7	38.1	39.6	40.4	40.8	40.9	40.9	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥ 1000	31.7	40.9	42.7	43.5	43.8	43.9	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥ 800	33.3	43.2	44.9	45.7	46.1	46.2	46.2	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 600	36.7	47.8	50.1	51.0	51.5	51.6	51.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 400	40.1	52.0	54.4	55.3	55.9	56.0	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 200	42.5	54.7	57.2	58.2	58.8	58.9	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 100	44.5	57.4	60.1	61.1	61.7	61.8	61.8	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 50	47.0	60.5	63.3	64.3	65.0	65.1	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 25	51.8	67.2	70.3	71.5	72.2	72.3	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 15	56.1	72.0	75.8	77.1	77.8	77.9	77.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 10	60.6	78.2	82.8	84.3	85.0	85.1	85.1	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 5	61.9	80.4	85.3	87.1	87.9	88.0	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 3	63.9	83.0	88.2	90.4	91.3	91.4	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 1.800	64.5	84.3	89.7	92.0	93.0	93.1	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1.500	65.2	85.6	91.5	93.8	94.8	94.9	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1.200	65.5	86.3	92.2	94.9	96.2	96.3	96.6	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1.000	66.0	87.0	93.0	95.7	97.6	97.7	98.0	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	66.0	87.0	93.1	95.8	97.7	97.8	98.1	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	66.0	87.1	93.2	96.0	97.9	98.0	98.3	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700	66.0	87.1	93.3	96.1	98.3	98.4	98.7	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	66.0	87.1	93.3	96.1	98.4	98.5	98.8	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	66.0	87.1	93.3	96.1	98.4	98.5	98.8	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	66.0	87.1	93.3	96.1	98.4	98.5	98.8	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	66.0	87.1	93.3	96.1	98.4	98.5	98.8	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	66.0	87.1	93.3	96.1	98.4	98.5	98.8	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	66.0	87.1	93.3	96.1	98.4	98.5	98.8	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 50	66.0	87.1	93.3	96.1	98.4	98.5	98.8	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 25	66.0	87.1	93.3	96.1	98.4	98.5	98.8	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1008



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-68,76-81

AVE

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1800-2000

CEILING FEET	20	26	28	24	22	20	18	16	14	12	10	8	6	4	2	1	0
20000	37.6	46.5	47.9	48.5	48.7	48.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
18000	42.3	51.7	53.3	53.8	54.2	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
16000	42.5	52.0	53.5	54.1	54.4	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
14000	42.5	52.0	53.5	54.1	54.4	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
12000	43.0	52.6	54.2	54.7	55.1	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
10000	44.4	54.5	56.4	57.0	57.3	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
8000	46.4	57.4	59.3	59.9	60.2	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
6000	49.4	60.8	62.7	63.2	63.5	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
4000	54.8	69.0	71.1	72.0	72.7	72.9	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
2000	57.4	72.9	75.3	76.5	77.1	77.4	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
1000	59.4	76.8	79.5	80.8	81.5	81.7	81.8	82.1	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
500	61.1	79.3	82.2	83.6	84.4	84.6	84.7	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
200	62.9	81.4	84.4	86.0	86.8	87.2	87.3	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
100	64.9	83.9	87.1	88.9	90.0	90.3	90.4	90.7	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
50	66.1	86.0	89.2	91.0	92.3	92.8	93.0	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
20	66.9	86.7	90.0	91.9	93.2	93.6	93.9	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
10	68.0	88.4	92.2	94.1	95.4	95.9	96.1	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
5	68.1	88.6	92.5	94.6	96.0	96.4	96.7	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2	68.6	89.2	93.3	95.7	97.1	97.5	97.8	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
1	68.7	89.3	93.4	95.8	97.2	97.7	97.9	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
0	68.7	89.4	93.6	96.1	97.5	98.0	98.4	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
900	68.8	89.5	93.8	96.4	97.9	98.3	99.1	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
800	68.9	89.6	93.9	96.5	98.0	98.4	99.2	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
700	68.9	89.6	93.9	96.7	98.1	98.6	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
600	68.9	89.6	93.9	96.7	98.1	98.6	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
500	68.9	89.6	93.9	96.7	98.1	98.6	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	68.9	89.6	93.9	96.7	98.1	98.6	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	68.9	89.6	93.9	96.7	98.1	98.6	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	68.9	89.6	93.9	96.7	98.1	98.6	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	68.9	89.6	93.9	96.7	98.1	98.6	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50	68.9	89.6	93.9	96.7	98.1	98.6	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 897





## CEILING VERSUS VISIBILITY

64-68, 76-81

AUG

ALL

26.1	36.5	38.8	40.6	42.4	42.8	43.3	43.8	44.0	44.2	44.4	44.4	44.4	44.5	44.6	45.3
28.8	39.6	42.0	43.8	45.7	46.1	46.7	47.2	47.5	47.7	47.9	47.9	48.0	48.1	48.2	49.0
28.9	39.7	42.2	44.0	45.8	46.3	46.8	47.3	47.6	47.9	48.0	48.0	48.1	48.2	48.3	49.1
28.9	39.7	42.2	44.0	45.9	46.3	46.8	47.4	47.6	47.9	48.0	48.0	48.1	48.2	48.3	49.1
29.2	40.1	42.6	44.4	46.3	46.7	47.3	47.8	48.0	48.3	48.5	48.5	48.6	48.7	48.8	49.6
29.8	41.2	43.8	45.7	47.6	48.0	48.6	49.1	49.3	49.6	49.8	49.8	49.9	50.0	50.1	50.9
31.2	43.6	46.3	48.2	50.2	50.7	51.2	51.8	52.1	52.4	52.5	52.5	52.6	52.8	52.9	53.7
32.1	46.2	48.9	50.8	52.9	53.4	54.0	54.7	55.0	55.3	55.4	55.4	55.5	55.7	55.7	56.6
36.6	51.8	55.0	57.1	59.4	59.9	60.6	61.3	61.5	61.9	62.1	62.1	62.2	62.3	62.4	63.3
38.3	55.3	58.6	60.9	63.4	63.9	64.6	65.3	65.6	65.9	66.1	66.2	66.3	66.4	66.5	67.4
40.3	58.7	62.2	64.7	67.3	67.8	68.5	69.3	69.6	70.0	70.2	70.2	70.3	70.5	70.6	71.5
42.0	61.0	64.7	67.3	70.0	70.5	71.3	72.1	72.4	72.8	73.0	73.0	73.1	73.3	73.4	74.3
43.6	63.1	66.9	69.5	72.3	72.8	73.7	74.5	74.9	75.3	75.5	75.5	75.6	75.7	75.9	76.8
46.0	66.5	70.6	73.4	76.3	76.9	77.8	78.7	79.1	79.5	79.7	79.7	79.8	80.0	80.1	81.0
47.6	68.6	72.9	75.8	78.8	79.5	80.5	81.4	81.8	82.2	82.4	82.5	82.5	82.7	82.8	83.7
49.6	71.2	75.4	78.8	82.0	82.7	83.8	84.7	85.1	85.5	85.8	85.8	85.9	86.1	86.2	87.1
50.4	72.5	77.4	80.6	83.8	84.4	85.6	86.5	86.9	87.4	87.6	87.6	87.8	87.9	88.0	88.9
51.3	74.0	79.0	82.3	85.6	86.3	87.5	88.5	88.9	89.4	89.6	89.6	89.7	89.9	90.0	90.9
51.5	74.5	79.5	82.9	86.2	86.9	88.2	89.2	89.6	90.0	90.3	90.3	90.4	90.6	90.7	91.6
51.9	75.2	80.4	83.9	87.2	87.9	89.3	90.3	90.7	91.2	91.4	91.5	91.6	91.8	91.9	92.8
52.2	75.8	81.2	85.0	88.5	89.3	90.8	91.9	92.4	92.9	93.1	93.2	93.3	93.4	93.5	94.4
52.4	76.3	81.9	85.9	89.6	90.4	92.0	93.3	93.8	94.3	94.5	94.6	94.7	94.9	95.0	95.9
52.5	76.4	82.1	86.1	89.8	90.7	92.4	93.8	94.3	94.8	95.1	95.1	95.2	95.4	95.5	96.4
52.6	76.5	82.3	86.5	90.3	91.2	93.0	94.4	94.9	95.5	95.8	95.8	95.9	96.1	96.2	97.1
52.6	76.6	82.4	86.7	90.6	91.5	93.5	95.1	95.6	96.2	96.5	96.5	96.7	96.9	97.0	97.9
52.6	76.7	82.5	86.9	90.9	91.9	93.8	95.6	96.2	96.8	97.1	97.1	97.3	97.5	97.6	98.5
52.6	76.7	82.5	87.0	91.2	92.1	94.1	96.0	96.6	97.3	97.6	97.7	97.8	98.0	98.1	99.0
52.6	76.7	82.5	87.0	91.2	92.1	94.2									

TOTAL NUMBER OF OBSERVATIONS 6555

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-68,76,78,80

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0000-0200

CEILING FEET	VISIBILITY IN STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.015	≥0.01	≥0.005
NO CEILING	8.8	33.3	37.6	42.0	45.1	47.4	49.9	52.6	53.1	55.1	56.5	56.5	56.9	58.0	58.3	60.3
≥20000	9.1	33.6	38.1	42.4	45.6	47.8	50.3	53.1	53.5	55.6	56.9	56.9	57.4	58.5	58.7	60.8
≥18000	9.1	33.6	38.1	42.4	45.6	47.8	50.3	53.1	53.5	55.6	56.9	56.9	57.4	58.5	58.7	60.8
≥16000	9.1	33.6	38.1	42.4	45.6	47.8	50.3	53.1	53.5	55.6	56.9	56.9	57.4	58.5	58.7	60.8
≥14000	9.8	34.2	38.8	43.1	46.3	48.5	51.0	53.7	54.2	56.2	57.6	57.6	58.0	59.2	59.4	61.5
≥12000	10.4	34.9	39.5	43.8	46.9	49.2	51.7	54.4	54.9	56.9	58.3	58.3	58.7	59.9	60.1	62.1
≥10000	10.4	35.4	39.9	44.2	47.4	49.9	52.4	55.1	55.6	57.6	59.2	59.2	59.6	60.8	61.0	63.0
≥8000	10.4	37.4	42.0	46.5	49.7	52.2	54.6	57.4	57.8	59.9	61.5	61.5	61.9	63.0	63.3	65.3
≥6000	11.3	39.5	44.0	49.2	52.6	55.1	58.0	60.8	61.2	63.3	64.9	64.9	65.3	66.4	66.7	68.7
≥4000	12.0	4.2	47.8	53.7	57.1	59.9	62.8	65.5	66.0	68.0	69.8	69.8	70.3	71.4	71.7	73.7
≥3000	12.5	43.8	57.1	56.7	60.5	63.3	66.2	68.9	69.4	71.4	73.5	73.5	73.9	75.1	75.3	77.3
≥2000	12.7	44.7	51.2	58.0	62.4	65.1	68.5	71.2	71.7	73.7	75.7	75.7	76.2	77.3	77.6	79.6
≥1500	12.7	45.6	52.2	59.0	63.3	66.0	69.6	72.3	72.8	74.8	76.9	76.9	77.3	78.5	78.7	80.7
≥1000	13.2	46.9	53.5	60.5	65.1	67.8	71.7	74.4	74.8	76.9	78.9	78.9	79.4	80.5	80.7	82.8
≥800	13.2	48.1	54.6	61.7	66.2	68.9	72.8	75.5	76.0	78.0	80.0	80.0	80.5	81.6	81.9	83.9
≥600	13.4	49.2	55.8	62.8	67.6	70.3	74.6	77.3	78.0	80.0	82.1	82.1	82.5	83.7	83.9	85.9
≥500	13.6	50.1	56.9	63.9	68.9	71.7	76.0	78.9	79.0	81.9	83.9	83.9	84.4	85.5	85.7	87.8
≥400	13.6	51.7	59.0	66.0	71.0	73.7	78.0	81.0	81.9	83.9	85.9	85.9	86.6	87.8	88.0	90.0
≥300	13.6	51.7	59.2	66.2	71.4	74.1	78.5	81.4	82.3	84.4	86.4	86.4	87.1	88.2	88.4	90.5
≥200	14.1	53.3	60.8	68.0	73.2	76.0	80.3	83.4	84.4	86.4	88.4	88.4	89.1	90.2	90.5	92.5
≥150	14.5	54.6	62.1	69.4	74.8	77.6	81.9	85.0	85.9	88.0	90.0	90.0	90.7	91.8	92.1	94.1
≥100	15.2	55.8	63.5	70.7	76.6	79.6	83.9	87.1	88.0	90.0	92.1	92.1	92.7	93.9	94.1	96.1
≥900	15.4	56.2	63.9	71.2	77.1	80.0	84.4	87.5	88.4	90.5	92.5	92.5	93.2	94.3	94.6	96.6
≥800	15.4	56.7	64.6	71.9	77.8	80.7	85.0	88.2	89.1	91.2	93.2	93.2	93.9	95.0	95.2	97.3
≥700	15.6	56.9	64.9	72.1	78.0	81.0	85.5	88.7	89.6	91.6	93.7	93.7	94.3	95.5	95.7	97.7
≥600	15.6	56.9	64.9	72.3	78.2	81.2	85.7	88.9	89.8	91.8	93.9	93.9	94.6	95.7	95.9	98.0
≥500	15.6	57.4	65.3	72.8	78.7	82.3	86.8	90.0	90.9	93.0	95.0	95.0	95.7	96.8	97.1	99.3
≥400	15.6	57.4	65.3	72.8	78.7	82.3	86.8	90.0	90.9	93.2	95.2	95.2	95.9	97.1	97.3	99.5
≥300	15.6	57.4	65.3	72.8	78.7	82.3	87.1	90.2	91.2	93.4	95.5	95.5	96.1	97.3	97.5	99.8
≥200	15.6	57.4	65.3	72.8	78.7	82.3	87.1	90.2	91.2	93.4	95.5	95.5	96.1	97.3	97.5	100.0
≥100	15.6	57.4	65.3	72.8	78.7	82.3	87.1	90.2	91.2	93.4	95.5	95.5	96.1	97.3	97.5	100.0
≥0	15.6	57.4	65.3	72.8	78.7	82.3	87.1	90.2	91.2	93.4	95.5	95.5	96.1	97.3	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS 991

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SEMBACH AB DL

64-68,76-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	12.3	26.3	29.0	32.4	35.1	36.8	42.0	44.2	44.7	46.4	47.6	47.9	48.9	50.1	50.6	54.8
≥ 20000	12.6	26.6	29.3	32.7	35.4	37.1	42.3	44.7	45.2	46.9	48.1	48.4	49.6	50.8	51.3	55.6
≥ 18000	12.6	26.6	29.3	32.7	35.4	37.1	42.3	44.7	45.2	46.9	48.1	48.4	49.6	50.8	51.3	55.6
≥ 16000	12.6	26.6	29.3	32.7	35.4	37.1	42.3	44.7	45.2	46.9	48.1	48.4	49.6	50.8	51.3	55.6
≥ 14000	12.6	27.2	29.8	33.2	35.9	37.6	42.8	45.2	45.7	47.4	48.6	48.9	50.1	51.3	51.8	56.2
≥ 12000	13.0	27.5	30.2	33.6	36.3	37.9	43.2	45.5	46.0	47.7	48.9	49.2	50.4	51.6	52.1	56.5
≥ 10000	13.3	28.5	31.2	34.6	37.6	39.3	44.5	46.9	47.4	49.1	50.3	50.6	51.8	53.0	53.5	57.8
≥ 9000	13.5	29.2	32.5	35.9	39.0	41.0	46.2	48.6	49.1	50.8	51.9	52.3	53.5	55.0	55.5	59.9
≥ 8000	15.9	32.0	35.4	39.0	42.3	44.4	49.9	52.4	53.0	54.6	55.8	56.2	57.3	58.9	59.4	63.7
≥ 7000	16.2	34.4	37.8	41.5	45.0	47.0	52.6	55.1	55.6	57.3	58.5	58.9	60.0	61.6	62.1	66.4
≥ 6000	16.2	35.2	38.8	42.8	46.4	48.4	54.1	56.7	57.2	58.9	60.0	60.4	61.6	63.2	63.7	68.1
≥ 5000	16.7	36.8	40.5	44.7	48.9	50.9	56.8	59.5	60.0	61.7	62.9	63.2	64.4	66.1	66.6	71.0
≥ 4000	17.9	39.1	42.8	47.0	51.3	53.3	59.4	62.1	62.6	64.2	65.4	65.8	66.9	68.6	69.1	73.5
≥ 3000	18.0	40.0	44.0	48.4	52.6	54.6	60.7	63.4	63.9	65.6	66.8	67.1	68.3	70.0	70.5	74.9
≥ 1500	18.2	40.6	44.9	49.7	54.0	56.0	62.4	65.1	65.6	67.3	68.5	68.8	70.0	71.7	72.2	76.6
≥ 1000	18.5	41.0	45.2	50.4	55.3	57.5	63.9	66.6	67.3	69.0	70.2	70.5	71.7	73.4	73.9	78.4
≥ 2500	18.9	41.7	45.9	51.1	56.3	58.5	64.9	67.6	68.3	70.0	71.2	71.5	72.7	74.5	75.0	79.6
≥ 2000	19.6	43.5	47.9	53.3	58.5	60.9	67.6	70.3	71.0	72.7	73.9	74.2	75.4	77.4	77.9	82.5
≥ 800	19.6	43.7	48.4	54.0	59.4	61.7	68.5	71.2	71.8	73.5	74.7	75.0	76.2	78.2	78.8	83.3
≥ 1500	20.6	46.0	50.9	56.7	62.6	64.9	72.0	74.7	75.4	77.1	78.2	78.6	79.8	81.8	82.3	86.8
≥ 1000	20.6	47.0	52.3	58.2	64.9	67.3	74.5	77.6	78.2	79.9	81.1	81.5	82.6	84.7	85.2	89.7
≥ 1000	20.7	48.1	53.3	59.5	66.3	68.6	75.9	78.9	79.6	81.3	82.5	82.8	84.0	86.2	86.7	91.2
≥ 900	20.9	48.4	53.6	60.4	67.3	69.8	77.2	80.3	80.9	82.6	83.8	84.1	85.3	87.5	88.0	92.6
≥ 800	21.1	48.7	54.0	60.7	67.8	70.5	77.9	80.9	81.6	83.3	84.5	84.8	86.0	88.2	88.7	93.3
≥ 700	21.1	49.1	54.3	61.2	68.5	71.3	78.8	81.8	82.5	84.1	85.3	85.7	86.8	89.0	89.5	94.1
≥ 600	21.1	49.2	54.5	61.4	69.0	71.8	79.3	82.3	83.1	84.8	86.0	86.5	87.7	89.9	90.4	94.9
≥ 500	21.2	49.6	54.8	61.7	69.3	72.2	79.8	83.0	83.8	85.5	86.7	87.2	88.4	90.6	91.1	95.6
≥ 400	21.2	49.6	54.8	61.7	69.3	72.2	79.9	83.1	84.0	85.7	86.8	87.4	88.5	90.7	91.2	95.8
≥ 300	21.2	49.6	54.8	61.7	69.3	72.2	80.3	83.5	84.3	86.0	87.2	87.7	88.9	91.1	91.6	96.1
≥ 200	21.2	49.6	54.8	61.7	69.3	72.2	80.4	84.1	85.2	87.4	88.5	89.0	90.2	92.4	92.9	98.5
≥ 100	21.2	49.6	54.8	61.7	69.3	72.2	80.4	84.3	85.3	87.5	88.7	89.4	90.6	92.7	93.3	99.3
≥ 0	21.2	49.6	54.8	61.7	69.3	72.2	80.4	84.5	85.5	87.7	89.0	89.7	90.9	93.1	93.6	100.0

TOTAL NUMBER OF OBSERVATIONS 593

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SEMBACH AB DL

64-68,76-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

3600-0800

CEILING FEET		VISIBILITY STATUTE MILES																	
		≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005	≥0.0025	≥0.001	≥0.0005	≥0.00025
NO CEILING		11.9	17.9	27.6	22.8	27.0	28.2	29.7	32.1	32.7	34.3	35.0	35.0	35.7	36.6	36.9	41.2		
≥ 20000		13.6	19.7	22.7	24.9	29.6	30.9	32.4	34.8	35.4	37.0	37.7	37.8	38.5	39.5	39.7	44.1		
≥ 18000		13.6	19.7	22.7	24.9	29.6	30.9	32.4	34.8	35.4	37.0	37.7	37.8	38.5	39.5	39.7	44.1		
≥ 16000		13.6	19.7	22.7	24.9	29.6	30.9	32.4	34.8	35.4	37.0	37.7	37.8	38.5	39.5	39.7	44.1		
≥ 14000		13.6	19.8	22.8	25.0	29.7	31.0	32.5	34.9	35.5	37.1	37.8	37.9	38.6	39.6	39.9	44.2		
≥ 12000		13.6	19.9	23.0	25.3	30.1	31.3	32.8	35.3	35.8	37.6	38.2	38.4	39.1	40.1	40.3	44.7		
≥ 10000		14.3	21.8	25.1	27.4	32.1	33.4	35.0	37.6	38.1	40.0	40.7	40.8	41.5	42.5	42.7	47.1		
≥ 9000		14.9	22.5	25.9	28.3	33.4	34.7	36.6	39.3	39.9	41.7	42.4	42.5	43.2	44.4	44.8	49.2		
≥ 8000		16.7	25.2	29.0	31.7	37.4	38.9	41.7	44.4	45.5	47.4	48.0	48.3	49.1	50.5	51.0	55.4		
≥ 7000		17.4	27.1	31.0	34.0	40.0	41.5	44.2	46.9	48.2	50.0	50.7	50.9	51.7	53.1	53.7	58.2		
≥ 6000		17.4	27.9	31.9	34.9	40.9	42.4	45.5	48.3	49.5	51.4	52.2	52.4	53.2	54.7	55.3	59.8		
≥ 5000		18.5	29.6	33.8	37.0	43.4	44.9	48.2	51.2	52.4	54.3	55.2	55.4	56.2	57.8	58.4	63.0		
≥ 4500		19.2	30.9	35.5	38.8	45.7	47.2	50.6	53.7	55.0	56.8	57.7	57.9	58.8	60.4	60.9	65.6		
≥ 4000		20.0	31.8	36.8	40.1	47.5	49.0	53.0	56.1	57.4	59.2	60.1	60.4	61.2	62.8	63.4	68.0		
≥ 3500		20.4	32.4	37.4	41.0	48.8	50.6	55.0	58.3	59.6	61.6	62.6	62.8	63.6	65.2	65.8	70.4		
≥ 3000		21.7	33.9	39.3	43.2	51.5	53.2	57.6	61.1	62.3	64.4	65.3	65.6	66.4	68.0	68.5	73.3		
≥ 2500		22.4	35.0	40.4	44.4	53.0	54.7	59.1	62.6	63.8	65.9	66.8	67.1	67.9	69.5	70.0	74.8		
≥ 2000		22.9	36.3	41.9	46.1	55.1	56.8	61.4	65.0	66.2	68.4	69.4	69.6	70.4	72.1	72.7	77.5		
≥ 1800		23.0	37.1	42.7	47.0	56.2	57.9	62.6	66.2	67.5	69.7	70.6	70.9	71.7	73.4	74.0	78.8		
≥ 1500		25.2	40.8	46.4	50.9	60.6	62.4	67.3	71.0	72.2	74.5	75.5	75.7	76.5	78.3	78.9	83.9		
≥ 1200		25.6	43.1	49.2	53.9	64.5	66.4	71.7	75.3	77.0	79.5	80.5	80.8	81.6	83.4	84.0	88.9		
≥ 1000		25.6	43.3	49.5	54.3	65.3	67.2	72.5	76.2	77.4	80.4	81.5	81.7	82.5	84.4	85.0	90.0		
≥ 900		25.6	43.3	49.5	54.4	65.4	67.3	72.6	76.6	78.3	81.0	82.0	82.3	83.1	85.0	85.6	90.6		
≥ 800		25.7	43.4	49.9	54.7	66.0	68.0	73.4	77.4	79.1	81.9	82.9	83.2	84.0	85.9	86.5	91.5		
≥ 700		25.8	43.5	50.0	54.8	66.4	68.4	74.2	78.2	80.0	82.7	83.9	84.1	84.9	86.9	87.4	92.4		
≥ 600		25.8	43.7	50.1	55.1	66.7	68.9	75.0	79.0	80.8	83.5	84.7	84.9	85.7	87.7	88.2	93.2		
≥ 500		25.8	43.7	50.2	55.2	66.9	69.2	75.5	79.7	81.5	84.2	85.4	85.6	86.4	88.5	89.3	94.6		
≥ 400		25.8	43.7	50.2	55.2	66.9	69.2	75.5	79.8	81.6	84.4	85.6	85.8	86.6	88.7	89.5	94.8		
≥ 300		25.8	43.7	50.2	55.2	66.9	69.2	75.5	79.8	81.6	84.6	85.7	85.9	86.8	89.2	90.0	95.7		
≥ 200		25.8	43.7	50.2	55.2	66.9	69.2	75.5	79.8	81.6	84.7	85.8	86.1	86.9	89.4	90.3	97.2		
≥ 100		25.8	43.7	50.2	55.2	66.9	69.2	75.5	79.8	81.6	84.8	86.1	86.3	87.2	89.7	90.9	98.8		
≥ 50		25.8	43.7	50.2	55.2	66.9	69.2	75.5	79.8	81.6	84.9	86.2	86.5	87.4	90.1	91.2	100.0		

TOTAL NUMBER OF OBSERVATIONS 868

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

7120 SEMBACH AB DL

64-68,76-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY IN STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. CEILING ≥ 20000	19.1	29.7	32.7	35.5	39.5	40.1	41.0	41.8	42.0	42.4	42.4	42.4	42.4	42.5	42.5	42.8
2 18000	22.2	32.9	36.2	39.1	43.2	43.9	44.7	45.5	45.7	46.2	46.2	46.3	46.4	46.5	46.5	46.9
2 16000	22.2	32.9	36.2	39.1	43.2	43.9	44.7	45.5	45.7	46.2	46.2	46.3	46.4	46.5	46.5	46.9
2 14000	22.3	33.0	36.3	39.4	43.7	44.3	45.1	45.9	46.1	46.6	46.6	46.7	46.9	47.0	47.0	47.3
2 12000	22.9	34.2	37.5	40.6	44.8	45.5	46.3	47.2	47.4	47.9	47.9	48.0	48.1	48.2	48.2	48.5
2 10000	23.9	35.5	38.9	42.0	46.5	47.3	48.1	48.9	49.1	49.6	49.6	49.7	49.9	50.1	50.1	50.4
2 9000	24.8	36.4	40.0	43.2	47.8	48.6	49.4	50.3	50.5	51.0	51.0	51.1	51.3	51.4	51.4	51.7
2 8000	26.0	38.6	42.3	45.7	50.6	51.4	52.4	53.4	53.6	54.1	54.1	54.2	54.4	54.5	54.5	54.8
2 7000	26.9	40.7	44.4	47.8	52.7	53.6	54.7	55.7	55.9	56.4	56.4	56.7	56.9	57.0	57.0	57.3
2 6000	27.8	41.9	45.6	49.2	54.3	55.2	56.3	57.5	57.8	58.3	58.3	58.5	58.7	58.8	58.8	59.1
2 5000	29.8	44.5	48.4	52.1	57.7	58.7	60.1	61.2	61.6	62.2	62.3	62.6	62.8	63.0	63.0	63.3
2 4500	30.3	45.3	49.5	53.3	58.8	59.9	61.2	62.3	62.7	63.4	63.5	63.8	64.0	64.1	64.1	64.4
2 4000	32.5	47.8	52.2	56.2	61.9	63.0	64.4	65.5	65.9	66.7	66.8	67.1	67.3	67.4	67.4	67.7
2 3500	34.2	49.8	54.5	59.1	65.1	66.2	67.9	69.2	69.8	70.5	70.6	70.9	71.1	71.2	71.2	71.5
2 3000	36.1	52.2	56.9	61.5	67.9	68.9	70.8	72.1	72.7	73.4	73.5	73.8	74.0	74.1	74.1	74.4
2 2500	38.3	55.3	60.1	64.8	71.5	72.5	74.5	75.9	76.4	77.1	77.2	77.5	77.7	77.8	77.8	78.1
2 2000	39.6	58.8	64.1	69.3	76.3	77.3	79.6	81.0	81.5	82.2	82.4	82.7	82.9	83.0	83.0	83.3
2 1800	39.7	59.6	64.9	70.2	77.1	78.1	80.4	81.8	82.4	83.1	83.2	83.5	83.7	83.8	83.8	84.1
2 1500	41.4	63.7	69.0	74.4	81.8	82.9	85.1	86.6	87.1	87.8	87.9	88.2	88.4	88.5	88.5	88.9
2 1200	41.9	65.4	71.2	76.7	84.1	85.4	87.9	89.4	89.9	90.7	90.8	91.1	91.3	91.4	91.4	91.7
2 1000	42.1	65.8	72.1	77.7	85.2	86.8	89.4	90.9	91.5	92.4	92.5	92.8	93.0	93.1	93.1	93.4
2 900	42.1	65.9	72.2	77.9	85.6	87.1	89.8	91.5	92.3	93.1	93.2	93.5	93.7	93.8	93.8	94.1
2 800	42.1	66.3	72.8	78.4	86.2	87.8	90.5	92.3	93.0	93.8	93.9	94.2	94.4	94.5	94.5	94.8
2 700	42.1	66.3	72.9	78.5	86.3	88.0	91.0	92.9	93.6	94.4	94.5	94.8	95.0	95.1	95.1	95.5
2 600	42.1	66.3	73.0	78.7	86.7	88.5	91.6	93.5	94.2	95.1	95.4	95.7	95.9	96.0	96.0	96.3
2 500	42.1	66.3	73.0	78.8	87.0	88.9	92.0	94.0	94.8	95.9	96.1	96.4	96.6	96.7	96.7	97.1
2 400	42.1	66.3	73.0	78.8	87.0	88.9	92.0	94.1	95.0	96.3	96.7	97.0	97.2	97.3	97.3	97.7
2 300	42.1	66.3	73.0	78.8	87.0	88.9	92.0	94.4	95.4	97.0	97.5	97.9	98.2	98.5	98.6	99.4
2 200	42.1	66.3	73.0	78.8	87.0	88.9	92.0	94.4	95.4	97.0	97.5	97.9	98.2	98.5	98.6	99.4
2 100	42.1	66.3	73.0	78.8	87.0	88.9	92.0	94.4	95.4	97.0	97.5	97.9	98.2	98.5	98.6	100.0
2	42.1	66.3	73.0	78.8	87.0	88.9	92.0	94.4	95.4	97.0	97.5	97.9	98.2	98.5	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 969



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-68,76-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1500-1700

CEILING FEET		VISIBILITY STATUTE MILES															
		≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005	≥0.0025	≥0.001
NO. CEILING	≥20000	30.8	38.7	41.4	43.0	43.6	43.6	43.7	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	47.8
	18000	35.8	43.7	46.5	48.2	48.8	48.8	48.9	48.9	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
2	16000	35.9	43.8	46.6	48.3	48.9	48.9	49.0	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
	14000	36.8	44.9	47.6	49.3	49.9	49.9	50.1	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
3	12000	37.5	45.8	48.6	50.3	50.9	50.9	51.0	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
	10000	39.4	48.2	51.2	53.0	53.6	53.6	53.7	53.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
4	9000	41.3	50.5	53.6	55.6	56.5	56.6	56.7	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
	8000	44.8	55.1	58.7	60.9	61.8	61.9	62.0	62.0	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
5	7000	47.6	58.9	62.5	64.9	65.8	65.9	66.0	66.0	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
	6000	50.2	63.1	67.1	69.6	70.6	70.7	70.8	70.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
6	5000	52.5	65.9	70.1	72.7	73.7	73.8	73.9	73.9	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
	4500	55.4	69.4	73.9	76.6	77.7	77.8	77.9	77.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
7	4000	57.7	72.7	77.8	80.4	81.6	81.7	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
	3500	61.0	76.3	81.9	84.6	85.9	86.0	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
8	3000	63.1	79.0	84.6	87.4	88.9	89.0	89.1	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
	2500	65.1	81.3	87.0	89.7	91.2	91.3	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
9	2000	66.2	83.0	88.7	91.8	93.4	93.5	93.6	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
	1800	66.6	83.4	89.3	92.6	94.4	94.6	94.7	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
10	1600	67.0	84.1	90.0	93.5	95.7	96.0	96.3	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
	1400	67.4	85.2	91.3	94.7	97.2	97.5	97.9	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
11	1200	67.6	85.7	91.9	95.7	98.1	98.4	98.8	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
	1000	67.6	85.7	92.0	95.8	98.3	98.6	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
12	900	67.6	85.7	92.0	95.8	98.4	98.7	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	800	67.6	85.7	92.0	95.9	98.6	98.9	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
13	700	67.6	85.7	92.0	95.9	98.6	98.9	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
	600	67.6	85.7	92.0	95.9	98.6	98.9	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
14	500	67.6	85.7	92.0	95.9	98.6	98.9	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
	400	67.6	85.7	92.0	95.9	98.6	98.9	99.4	99.4	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9
15	300	67.6	85.7	92.0	95.9	98.6	98.9	99.4	99.4	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
	200	67.6	85.7	92.0	95.9	98.6	98.9	99.4	99.4	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
16	100	67.6	85.7	92.0	95.9	98.6	98.9	99.4	99.4	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
	00	67.6	85.7	92.0	95.9	98.6	98.9	99.4	99.4	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 951



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

17120 SEMBACH AB DL

54-68,76-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1800-2000

1-1000	30.0	41.0	44.6	46.6	49.0	49.5	50.8	51.3	51.3	51.3	51.3	51.3	51.4	51.4	51.4	51.4
1000-1500	34.1	45.4	48.6	50.6	53.2	53.7	55.0	55.5	55.5	55.5	55.5	55.5	55.6	55.6	55.6	55.6
1500-2000	34.1	45.4	48.6	50.6	53.2	53.7	55.0	55.5	55.5	55.5	55.5	55.5	55.6	55.6	55.6	55.6
2000-2500	34.7	46.0	49.2	51.2	53.8	54.3	55.6	56.1	56.1	56.1	56.1	56.1	56.2	56.2	56.2	56.2
2500-3000	35.6	47.2	50.5	52.6	55.3	55.8	57.1	57.6	57.6	57.6	57.6	57.6	57.7	57.7	57.7	57.7
3000-3500	36.6	49.3	52.8	54.9	57.6	58.0	59.5	60.0	60.0	60.0	60.0	60.0	60.1	60.1	60.1	60.1
3500-4000	37.8	51.2	54.8	57.2	60.2	60.8	62.5	62.9	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.2
4000-4500	40.9	55.5	59.2	61.6	64.7	65.5	67.1	67.6	67.7	67.7	67.7	67.7	67.9	67.9	67.9	67.9
4500-5000	44.6	60.6	64.5	66.9	70.1	70.9	72.7	73.1	73.3	73.3	73.3	73.3	73.4	73.4	73.4	73.4
5000-5500	46.6	63.8	68.1	70.9	74.1	74.8	76.6	77.1	77.2	77.2	77.2	77.2	77.3	77.3	77.3	77.3
5500-6000	48.6	66.3	70.9	74.0	77.2	77.9	79.9	80.3	80.5	80.5	80.5	80.5	80.6	80.6	80.6	80.6
6000-6500	50.8	68.9	73.6	76.7	80.3	81.1	83.0	83.5	83.6	83.6	83.6	83.6	83.7	83.7	83.7	83.7
6500-7000	52.6	71.7	76.5	79.7	83.3	84.1	86.1	86.6	86.7	86.7	86.7	86.7	86.8	86.8	86.8	86.8
7000-7500	53.8	73.9	79.1	82.6	86.2	86.9	89.2	89.7	89.8	89.8	89.8	89.8	89.9	89.9	89.9	89.9
7500-8000	54.3	74.5	79.9	83.6	87.3	88.0	90.3	90.8	90.9	90.9	90.9	90.9	91.0	91.0	91.0	91.0
8000-8500	55.4	75.9	81.4	85.3	89.7	90.4	92.7	93.4	93.5	93.5	93.5	93.5	93.6	93.6	93.6	93.6
8500-9000	55.8	76.6	82.4	86.6	91.0	91.8	94.1	94.8	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1
9000-9500	55.8	76.7	82.5	86.9	91.4	92.2	94.5	95.3	95.4	95.4	95.4	95.4	95.6	95.6	95.6	95.6
9500-10000	55.9	77.1	83.0	87.4	91.8	92.7	95.0	95.8	95.9	96.0	96.0	96.0	96.2	96.2	96.2	96.2
10000-10500	56.1	77.8	83.7	88.4	93.0	93.9	96.3	97.2	97.4	97.5	97.5	97.5	97.6	97.6	97.6	97.6
10500-11000	56.2	77.9	84.1	88.7	93.8	94.7	97.1	98.1	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.4
11000-11500	56.4	78.5	84.8	89.4	94.5	95.4	97.8	98.8	98.9	99.0	99.0	99.0	99.2	99.2	99.2	99.2
11500-12000	56.4	78.5	84.8	89.4	94.6	95.6	98.0	98.9	99.0	99.2	99.2	99.2	99.3	99.3	99.3	99.3
12000-12500	56.5	78.7	84.9	89.7	95.0	95.9	98.3	99.3	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6
12500-13000	56.5	78.7	84.9	89.8	95.1	96.0	98.4	99.5	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9
13000-13500	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
13500-14000	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
14000-14500	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
14500-15000	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
15000-15500	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
15500-16000	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
16000-16500	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
16500-17000	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
17000-17500	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
17500-18000	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
18000-18500	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
18500-19000	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
19000-19500	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
19500-20000	56.5	78.7	84.9	89.8	95.1	96.0	98.6	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 834

## CEILING VERSUS VISIBILITY

64-68, 76-81

SEP.

2100-2300

22.5	41.9	45.0	49.8	54.4	55.8	57.8	58.6	58.8	59.2	59.5	59.7	59.7	60.0	60.0	60.2
23.6	43.3	46.6	51.6	56.1	57.5	59.5	60.3	60.5	60.9	61.3	61.4	61.4	61.7	61.7	61.9
23.6	43.3	46.6	51.6	56.1	57.5	59.5	60.3	60.5	60.9	61.3	61.4	61.4	61.7	61.7	61.9
23.6	43.3	46.6	51.6	56.1	57.5	59.5	60.3	60.5	60.9	61.3	61.4	61.4	61.7	61.7	61.9
24.1	43.8	47.0	52.0	56.6	58.0	60.2	61.1	61.3	61.7	62.0	62.2	62.2	62.5	62.5	62.7
24.8	44.8	48.1	53.1	57.7	59.1	61.4	62.3	62.5	63.0	63.3	63.4	63.4	63.8	63.8	63.9
25.2	46.6	50.3	55.5	60.2	61.6	63.9	64.8	65.0	65.5	65.8	65.9	65.9	66.3	66.3	66.4
26.1	46.1	52.2	57.3	62.2	63.6	65.9	66.9	67.0	67.5	67.8	68.0	68.0	68.3	68.3	68.4
28.1	51.1	55.6	61.1	67.0	68.4	70.9	71.9	72.0	72.5	72.8	73.0	73.0	73.3	73.3	73.4
29.4	54.1	58.6	64.4	70.5	71.9	74.7	75.6	75.8	76.4	76.7	76.9	76.9	77.2	77.2	77.3
29.8	56.9	61.9	67.8	74.2	75.6	78.6	79.5	79.7	80.3	80.6	80.8	80.8	81.1	81.1	81.3
30.8	58.6	63.6	70.0	76.9	78.3	81.3	82.2	82.3	83.0	83.3	83.4	83.4	83.8	83.8	83.9
31.9	60.6	65.9	73.0	80.0	81.6	84.5	85.5	85.6	86.3	86.6	86.7	86.7	87.0	87.0	87.2
32.2	62.3	67.7	74.7	82.0	83.6	86.6	87.5	87.7	88.3	88.6	88.8	88.8	89.1	89.1	89.2
33.3	64.2	69.5	76.6	84.1	85.6	88.8	89.7	89.8	90.5	90.8	90.9	90.9	91.3	91.3	91.4
33.6	65.3	70.8	78.0	85.5	87.0	90.2	91.1	91.3	91.9	92.2	92.3	92.3	92.7	92.7	92.8
34.4	66.7	72.5	79.8	87.7	89.2	92.5	93.6	93.8	94.4	94.7	94.8	94.8	95.2	95.2	95.3
34.5	66.9	72.7	80.2	88.0	89.5	92.8	93.9	94.1	94.7	95.0	95.2	95.2	95.5	95.5	95.6
34.5	67.0	72.8	80.5	88.3	89.8	93.1	94.2	94.4	95.0	95.3	95.5	95.5	95.8	95.8	96.1
34.7	67.5	73.3	80.9	88.8	90.3	93.6	94.8	95.0	95.6	95.9	96.1	96.1	96.4	96.4	96.7
34.7	68.0	73.9	81.7	89.5	91.1	94.4	95.6	95.8	96.4	96.7	96.9	96.9	97.2	97.2	97.7
34.7	68.1	74.2	82.2	90.0	91.6	94.8	96.1	96.3	96.9	97.2	97.3	97.3	97.7	97.7	98.1
34.7	68.3	74.4	82.5	90.3	92.0	95.3	96.6	96.7	97.3	97.7	97.8	97.8	98.1	98.1	98.6
34.7	68.3	74.4	82.5	90.3	92.0	95.3	96.6	96.7	97.3	97.7	97.8	97.8	98.1	98.1	98.6
34.7	68.6	74.7	82.8	90.6	92.5	95.9	97.2	97.3	98.0	98.3	98.4	98.4	98.8	98.8	99.2
34.7	68.6	74.7	82.8	90.6	92.5	96.1	97.3	97.5	98.1	98.4	98.6	98.6	98.9	98.9	99.4
34.7	68.6	74.7	82.8	90.6	92.5	96.6	97.8	98.0	98.6	98.9	99.1	99.1	99.4	99.4	99.8
34.7	68.6	74.7	82.8	90.6	92.5	96.6	97.8	98.0	98.6	98.9	99.1	99.1	99.4	99.4	100.0
34.7	68.6	74.7	82.8	90.6	92.5	96.6	97.8	98.0	98.6	98.9	99.1	99.1	99.4	99.4	100.0
34.7	68.6	74.7	82.8	90.6	92.5	96.6	97.8	98.0	98.6	98.9	99.1	99.1	99.4	99.4	100.0
34.7	68.6	74.7	82.8	90.6	92.5	96.6	97.8	98.0	98.6	98.9	99.1	99.1	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 640

USAF ETAC 0-14.5 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7120 SEMBACH AB DL

64-68,76-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

ALL

	21.6	33.4	36.4	38.9	41.7	42.5	43.9	44.9	45.1	45.8	46.1	46.2	46.4	46.8	46.9	48.1
20000	24.1	36.1	39.3	41.9	44.8	45.6	47.0	48.0	48.2	48.9	49.2	49.3	49.6	50.0	50.1	51.3
18000	24.3	36.2	39.4	42.0	44.9	45.7	47.1	48.1	48.4	49.0	49.4	49.4	49.7	50.1	50.2	51.4
16000	24.3	36.2	39.4	42.1	44.9	45.7	47.2	48.2	48.4	49.1	49.4	49.5	49.7	50.1	50.2	51.5
14000	24.7	36.7	39.9	42.6	45.5	46.3	47.8	48.8	49.0	49.7	50.0	50.1	50.4	50.7	50.8	52.1
12000	25.2	37.5	40.7	43.5	46.3	47.2	48.6	49.7	49.9	50.6	50.9	51.0	51.2	51.6	51.7	53.0
10000	26.2	39.2	42.7	45.4	48.4	49.3	50.8	51.8	52.1	52.7	53.1	53.2	53.5	53.8	53.9	55.2
8000	27.2	40.8	44.5	47.4	50.5	51.5	53.0	54.1	54.3	55.0	55.4	55.5	55.7	56.2	56.3	57.5
6000	29.5	43.9	47.8	50.9	54.4	55.4	57.2	58.3	58.6	59.3	59.7	59.7	60.1	60.5	60.7	61.9
4000	31.1	46.7	50.8	54.1	57.7	58.7	60.5	61.7	62.0	62.7	63.1	63.2	63.5	64.0	64.1	65.3
2000	32.1	48.9	53.2	56.7	60.4	61.5	63.4	64.5	64.9	65.6	66.0	66.1	66.4	66.9	67.1	68.3
1000	33.6	51.0	55.4	59.1	63.2	64.2	66.3	67.5	67.8	68.6	69.0	69.1	69.4	69.9	70.1	71.3
500	35.1	53.0	57.7	61.5	65.7	66.7	68.8	70.0	70.4	71.1	71.6	71.7	72.0	72.5	72.6	73.9
250	36.7	55.5	60.4	64.3	68.6	69.7	71.9	73.1	73.5	74.3	74.7	74.8	75.1	75.6	75.8	77.0
100	38.3	57.7	62.9	67.1	71.6	72.7	75.2	76.4	76.8	77.6	78.0	78.2	78.5	79.0	79.1	80.4
50	39.8	59.7	65.0	69.4	74.2	75.4	77.8	79.1	79.5	80.3	80.7	80.9	81.2	81.7	81.8	83.1
25	41.3	61.8	67.2	71.7	76.9	78.0	80.5	81.8	82.3	83.1	83.5	83.6	83.9	84.4	84.6	85.9
10	42.3	63.7	69.4	74.1	79.4	80.5	83.1	84.5	85.0	85.8	86.2	86.3	86.7	87.2	87.4	88.7
5	42.4	64.0	69.8	74.7	80.1	81.2	83.9	85.3	85.7	86.5	86.9	87.1	87.4	88.0	88.1	89.4
2	43.4	66.0	71.9	76.9	82.6	83.8	86.6	88.0	88.5	89.3	89.7	89.9	90.2	90.8	90.9	92.2
1	43.7	67.2	73.4	78.5	84.5	85.8	88.7	90.2	90.7	91.6	92.0	92.1	92.5	93.0	93.2	94.5
0.5	43.8	67.6	73.9	79.2	85.4	86.7	89.6	91.2	91.7	92.6	93.0	93.2	93.5	94.1	94.2	95.6
0.2	43.9	67.8	74.2	79.5	85.8	87.1	90.1	91.8	92.3	93.2	93.7	93.8	94.1	94.7	94.9	96.2
0.1	43.9	67.9	74.4	79.8	86.2	87.5	90.6	92.2	92.7	93.6	94.1	94.2	94.6	95.2	95.3	96.7
0.05	44.0	68.1	74.5	79.9	86.4	87.9	91.0	92.7	93.2	94.1	94.6	94.7	95.1	95.7	95.8	97.2
0.02	44.0	68.1	74.6	80.1	86.7	88.2	91.4	93.1	93.7	94.6	95.1	95.2	95.5	96.2	96.3	97.7
0.01	44.0	68.2	74.7	80.2	86.9	88.4	91.7	93.5	94.1	95.0	95.5	95.6	96.0	96.6	96.8	98.2
0.005	44.0	68.2	74.7	80.2	86.9	88.4	91.8	93.6	94.2	95.2	95.7	95.9	96.2	96.8	97.0	98.5
0.002	44.0	68.2	74.7	80.2	86.9	88.4	91.8	93.7	94.3	95.4	95.9	96.1	96.5	97.2	97.4	98.9
0.001	44.0	68.2	74.7	80.2	86.9	88.4	91.9	93.7	94.4	95.5	96.1	96.3	96.6	97.3	97.5	99.4
0.0005	44.0	68.2	74.7	80.2	86.9	88.4	91.9	93.8	94.4	95.5	96.1	96.3	96.7	97.4	97.6	99.8
0.0002	44.0	68.2	74.7	80.2	86.9	88.4	91.9	93.8	94.4	95.6	96.2	96.4	96.8	97.5	97.7	100.0

TOTAL NUMBER OF OBSERVATIONS 6268

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

17120 SEMBACH AB DL

64-67,81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0000-0200

	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
10.6	22.3	26.4	28.2	34.2	37.6	39.9	42.0	43.5	45.6	45.9	46.1	47.2	48.4	48.4	49.7					
10.9	22.5	26.7	28.5	34.5	37.8	40.2	42.2	43.8	45.9	46.1	46.4	47.4	48.7	48.7	50.0					
10.9	22.5	26.7	28.5	34.5	37.8	40.2	42.2	43.8	45.9	46.1	46.4	47.4	48.7	48.7	50.0					
10.9	22.5	26.7	28.5	34.5	37.8	40.2	42.2	43.8	45.9	46.1	46.4	47.4	48.7	48.7	50.0					
11.1	23.1	27.2	29.0	35.0	38.3	40.7	42.7	44.3	46.4	46.6	46.9	47.9	49.2	49.2	50.5					
11.7	23.6	27.7	29.5	35.5	38.9	41.2	43.3	44.8	46.9	47.2	47.4	49.0	50.3	50.3	51.6					
11.9	24.1	28.8	30.6	36.5	40.2	42.5	44.6	46.1	48.4	48.7	49.0	50.5	51.8	51.8	53.1					
11.9	24.1	28.8	30.6	36.5	40.2	42.5	44.6	46.1	48.4	48.7	49.0	50.5	51.8	51.8	53.1					
11.9	25.6	30.3	32.4	38.3	42.0	44.3	46.4	48.2	50.5	50.8	51.0	52.6	53.9	53.9	55.2					
13.2	29.3	34.2	36.3	42.5	46.1	48.7	50.8	52.6	54.9	55.2	55.4	57.0	58.3	58.3	59.6					
14.5	32.9	37.8	41.2	47.4	51.0	54.4	56.7	58.5	60.9	61.1	61.4	63.0	64.2	64.2	65.5					
15.0	34.5	39.4	42.7	49.2	52.8	56.5	58.8	60.6	63.0	63.2	63.5	65.0	66.3	66.3	67.6					
15.5	35.8	40.7	44.3	50.8	54.4	58.0	60.4	62.2	64.5	64.8	65.0	66.6	67.9	67.9	69.2					
16.1	37.6	43.0	46.9	53.4	57.0	60.6	63.0	64.8	67.1	67.4	67.6	69.2	70.5	70.5	71.8					
17.1	38.9	44.8	48.7	55.2	58.8	62.4	64.8	66.6	68.9	69.2	69.4	71.0	72.3	72.3	73.6					
17.4	39.9	46.1	50.0	56.7	60.4	64.0	66.3	68.1	70.5	70.7	71.0	72.5	73.8	73.8	75.1					
17.4	41.5	47.7	52.3	59.3	63.5	67.1	69.4	71.2	73.6	73.8	74.1	75.6	77.2	77.2	78.5					
17.4	41.7	47.9	53.1	60.4	65.0	68.7	71.0	72.8	75.4	76.2	76.4	78.0	79.5	79.5	80.8					
17.4	42.2	48.4	54.1	61.4	67.1	70.7	73.3	75.1	77.7	78.5	78.8	80.3	81.9	81.9	83.2					
17.4	43.0	49.2	55.2	62.4	68.1	71.8	74.4	76.2	79.0	79.8	80.1	82.1	83.7	83.7	85.0					
17.4	43.5	49.7	56.2	63.5	69.2	73.1	75.6	77.5	80.6	81.3	81.6	83.7	85.2	85.2	86.5					
17.4	44.0	50.5	57.0	64.2	70.2	74.4	76.9	78.8	81.9	82.6	82.9	85.0	86.5	86.5	87.8					
17.4	44.0	50.5	57.3	65.0	71.0	75.1	78.0	79.8	82.9	83.7	83.9	86.0	87.6	87.6	88.9					
17.4	44.0	50.8	57.5	65.5	71.5	75.9	78.8	80.6	83.7	84.5	84.7	86.8	88.3	88.3	89.6					
17.4	44.0	51.3	58.3	66.6	72.8	77.2	80.1	81.9	85.0	85.8	86.0	88.1	89.6	89.6	90.9					
17.4	44.0	51.3	58.3	66.6	72.8	77.2	80.1	81.9	85.0	85.8	86.0	88.1	89.6	89.6	90.9					
17.4	44.3	51.8	58.8	67.6	73.8	78.5	81.3	83.2	86.3	87.0	87.3	89.4	90.9	90.9	92.2					
17.4	44.3	51.8	58.8	67.9	74.4	79.0	81.9	84.2	87.3	88.1	88.3	90.4	92.0	92.0	93.3					
17.4	44.3	51.8	58.8	67.9	74.6	79.5	82.9	85.2	88.6	89.6	89.9	92.2	93.8	93.8	95.1					
17.4	44.3	51.8	58.8	67.9	74.6	79.5	82.9	85.2	88.6	89.9	90.2	92.5	94.6	94.6	95.9					
17.4	44.3	51.8	58.8	67.9	74.6	79.5	82.9	85.2	88.6	89.9	90.2	92.5	94.6	94.6	100.0					

TOTAL NUMBER OF OBSERVATIONS 386

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

0120 SEMBACH AB DL

64-67,76-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0300-0500

CEILING	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
1000	10.4	17.7	20.9	23.7	28.7	30.7	32.1	34.1	35.5	37.6	38.6	39.0	39.2	41.4	41.6	44.8			
900	11.7	18.3	21.5	24.3	29.5	31.5	33.1	35.1	36.5	38.6	39.6	40.0	40.2	42.4	42.6	45.8			
800	11.7	18.3	21.5	24.3	29.5	31.5	33.1	35.1	36.5	38.6	39.6	40.0	40.2	42.4	42.6	45.8			
700	11.7	18.3	21.5	24.3	29.5	31.5	33.1	35.1	36.5	38.6	39.6	40.0	40.2	42.4	42.6	45.8			
600	11.7	18.3	21.5	24.3	29.5	31.5	33.1	35.1	36.5	38.6	39.6	40.0	40.2	42.4	42.6	45.8			
500	11.7	18.3	21.5	24.3	29.5	31.5	33.1	35.1	36.5	38.6	39.6	40.0	40.2	42.4	42.6	45.8			
400	11.7	18.3	21.5	24.3	29.5	31.5	33.1	35.1	36.5	38.6	39.6	40.0	40.2	42.4	42.6	45.8			
300	11.7	18.3	21.5	24.3	29.5	31.5	33.1	35.1	36.5	38.6	39.6	40.0	40.2	42.4	42.6	45.8			
200	11.7	18.3	21.5	24.3	29.5	31.5	33.1	35.1	36.5	38.6	39.6	40.0	40.2	42.4	42.6	45.8			
100	11.7	18.3	21.5	24.3	29.5	31.5	33.1	35.1	36.5	38.6	39.6	40.0	40.2	42.4	42.6	45.8			
0	11.7	18.3	21.5	24.3	29.5	31.5	33.1	35.1	36.5	38.6	39.6	40.0	40.2	42.4	42.6	45.8			
1000	11.2	18.7	21.9	24.9	30.3	32.3	33.9	35.9	37.5	39.6	40.6	41.0	41.2	43.4	43.6	46.8			
900	11.2	18.7	21.9	24.9	30.3	32.3	33.9	35.9	37.5	39.6	40.6	41.0	41.2	43.4	43.6	46.8			
800	11.4	19.5	22.7	25.7	31.1	33.1	34.7	36.7	38.2	40.4	41.4	41.8	42.0	44.2	44.4	47.6			
700	11.8	21.7	24.9	28.1	33.7	36.3	38.2	40.4	42.0	44.2	45.2	45.6	45.8	48.0	48.2	51.4			
600	12.2	23.5	26.7	30.1	35.7	38.4	40.6	42.8	44.4	46.6	47.6	48.0	48.2	50.4	50.6	53.8			
500	12.7	24.3	27.5	30.9	36.7	39.4	42.0	44.4	46.0	48.2	49.4	49.8	50.0	52.2	52.4	55.6			
400	13.1	25.1	28.5	31.9	37.6	40.4	43.2	45.6	47.2	49.4	50.6	51.0	51.2	53.4	53.6	56.8			
300	14.5	27.1	30.5	33.9	39.6	42.4	45.2	47.6	49.4	51.6	52.8	53.2	53.4	55.6	55.8	59.0			
200	15.7	29.9	33.3	36.7	42.4	45.2	48.0	50.4	52.2	54.6	55.8	56.2	56.4	58.6	58.8	62.0			
100	16.3	31.1	35.1	38.4	44.6	47.4	50.6	53.0	54.8	57.2	58.4	58.8	59.0	61.2	61.4	64.5			
0	16.7	31.7	35.9	39.2	45.4	48.4	51.6	54.0	55.8	58.2	59.4	59.8	60.0	62.2	62.4	65.5			
1000	18.3	34.9	39.0	43.6	50.2	53.8	58.0	60.4	62.7	65.1	66.3	66.7	66.9	69.1	69.3	72.5			
900	18.7	35.3	39.4	44.4	51.2	54.8	59.0	61.4	63.7	66.1	67.3	67.7	67.9	70.7	70.9	74.1			
800	19.1	35.9	40.0	45.0	52.0	55.6	60.0	62.5	64.9	67.3	68.5	68.9	69.1	71.9	72.1	75.3			
700	19.5	37.6	42.8	48.4	56.8	60.8	65.3	67.9	70.3	72.9	74.1	74.5	74.9	77.7	77.9	81.1			
600	19.7	38.8	44.2	50.2	58.6	62.5	67.5	70.1	72.5	75.1	76.5	76.9	77.3	80.1	80.3	83.5			
500	19.7	38.8	44.4	50.4	59.0	62.9	67.9	70.5	72.9	75.5	76.9	77.3	77.7	80.5	80.7	83.9			
400	19.7	39.4	45.0	51.0	60.2	64.1	69.1	71.7	74.1	76.7	78.3	78.7	79.1	81.9	82.1	85.3			
300	19.9	39.6	45.4	51.4	60.8	64.7	69.9	72.5	74.9	77.5	79.1	79.5	79.9	82.7	82.9	86.1			
200	19.9	39.6	45.4	51.6	61.0	64.9	70.1	72.9	75.3	77.9	79.5	79.9	80.3	83.1	83.3	86.5			
100	20.1	39.8	45.6	51.8	61.4	65.3	70.9	74.3	76.7	79.3	80.9	81.3	81.7	84.5	84.7	87.8			
0	20.1	39.8	45.8	52.0	61.6	65.7	71.5	74.9	77.3	79.9	81.5	82.1	82.5	85.3	85.5	88.6			
1000	20.1	39.8	45.8	52.0	61.8	66.1	72.5	75.9	78.3	80.9	82.9	83.5	84.3	87.3	87.5	91.2			
900	20.1	39.8	45.8	52.0	61.8	66.1	72.5	75.9	78.7	81.3	83.7	84.7	85.9	89.2	89.4	95.8			
800	20.1	39.8	45.8	52.0	61.8	66.1	72.5	76.1	78.9	81.5	84.1	85.1	86.3	90.0	90.2	99.6			
700	20.1	39.8	45.8	52.0	61.8	66.1	72.5	76.1	78.9	81.5	84.1	85.1	86.3	90.0	90.2	100.0			

TOTAL NUMBER OF OBSERVATIONS 502

## CEILING VERSUS VISIBILITY

OCT

0600-0800

TOTAL NUMBER OF OBSERVATIONS 753

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

120 SEMBACH AB DL

64-67,76-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0900-1100

NO.	CEILING	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
1	12.7	17.2	18.1	21.6	24.4	25.2	26.4	27.4	27.9	28.0	28.1	28.1	28.2	28.8	29.1	29.9		
2	14.1	18.8	19.9	23.5	26.2	27.1	28.6	29.8	30.3	30.5	30.6	30.6	30.7	31.2	31.6	32.6		
3	14.2	18.9	20.2	23.7	26.5	27.4	28.8	30.0	30.6	30.7	30.8	30.8	30.9	31.5	31.8	32.8		
4	14.4	19.2	20.4	23.9	26.7	27.6	29.0	30.2	30.8	30.9	31.0	31.0	31.1	31.7	32.0	33.0		
5	14.7	19.7	20.9	24.5	27.2	28.1	29.6	30.8	31.3	31.5	31.6	31.6	31.7	32.2	32.6	33.6		
6	15.3	20.3	21.5	25.0	27.8	28.8	30.3	31.6	32.1	32.2	32.3	32.3	32.4	33.0	33.3	34.3		
7	15.6	20.6	21.9	25.5	28.3	29.5	31.1	32.3	32.9	33.0	33.1	33.1	33.2	33.6	34.1	35.2		
8	15.8	21.0	22.5	26.1	29.1	30.3	32.1	33.3	33.9	34.2	34.4	34.4	34.6	35.1	35.4	36.5		
9	17.3	23.0	24.5	28.5	32.1	33.3	35.3	36.7	37.3	37.8	38.0	38.0	38.1	38.6	39.0	40.1		
10	18.3	24.6	26.0	30.0	33.9	35.1	37.2	38.6	39.3	39.8	40.0	40.0	40.1	40.6	41.0	42.1		
11	18.8	25.5	27.0	31.0	34.9	36.1	38.2	39.6	40.3	40.8	41.0	41.0	41.1	41.6	42.0	43.1		
12	19.5	26.4	27.9	32.0	36.0	37.2	39.3	40.8	41.4	41.9	42.1	42.1	42.2	42.7	43.3	44.5		
13	20.7	27.8	29.5	33.6	37.9	39.1	41.2	42.6	43.3	43.7	44.0	44.0	44.1	44.6	45.2	46.4		
14	22.5	30.1	32.3	36.9	41.4	42.6	44.7	46.3	47.0	47.5	47.7	47.7	47.8	48.4	48.9	50.2		
15	23.3	31.3	33.7	38.6	43.4	44.7	47.1	48.6	49.4	49.9	50.2	50.2	50.3	50.8	51.4	52.6		
16	24.4	32.9	35.5	41.1	46.1	47.4	49.8	51.5	52.6	53.2	53.4	53.4	53.5	54.0	54.6	55.8		
17	26.9	35.8	38.6	44.4	49.7	51.2	53.7	55.4	56.5	57.3	57.6	57.6	57.7	58.3	58.9	60.1		
18	29.1	39.0	42.2	49.1	54.9	56.6	59.2	60.9	62.1	62.9	63.2	63.2	63.3	63.9	64.6	65.8		
19	29.2	40.0	43.7	50.6	56.5	58.3	60.9	62.8	64.0	64.8	65.1	65.1	65.2	65.8	66.4	67.7		
20	30.9	43.5	48.0	55.1	61.6	63.6	66.4	68.4	69.8	70.5	70.9	70.9	71.0	71.5	72.2	73.4		
21	31.9	45.2	50.1	57.8	64.6	67.0	70.1	72.3	73.6	74.4	74.8	74.8	74.9	75.5	76.2	77.4		
22	32.7	46.3	51.2	59.0	66.2	68.7	72.0	74.2	75.6	76.4	76.9	76.9	77.0	77.6	78.3	79.5		
23	33.0	47.0	51.9	60.2	67.8	70.3	73.6	76.0	77.4	78.3	78.8	79.0	79.1	79.7	80.4	81.6		
24	33.2	47.2	52.2	60.8	69.1	71.9	75.5	78.1	79.6	80.5	81.1	81.2	81.3	81.9	82.6	83.8		
25	33.3	47.4	52.4	61.2	69.8	72.6	76.4	79.5	81.2	82.1	82.7	82.8	82.9	83.6	84.3	85.5		
26	33.4	47.7	52.7	61.6	70.3	73.3	77.1	80.4	82.1	82.9	83.7	83.8	83.9	84.6	85.3	86.5		
27	33.4	47.7	52.7	61.7	70.5	73.5	77.4	81.4	83.2	84.4	85.2	85.3	85.6	86.3	87.0	88.3		
28	33.4	47.7	52.8	61.8	70.8	73.9	78.7	82.9	84.8	86.3	87.4	87.6	87.9	88.8	89.6	91.0		
29	33.4	47.7	52.8	61.8	70.9	74.0	79.3	83.5	85.5	86.9	88.6	89.0	89.7	91.4	92.8	95.6		
30	33.4	47.7	52.8	61.8	70.9	74.0	79.4	83.6	85.6	87.0	88.8	89.3	90.3	92.8	94.9	99.3		
31	33.4	47.7	52.8	61.8	70.9	74.0	79.4	83.6	85.6	87.0	88.8	89.3	90.3	92.9	95.0	100.0		
32	33.4	47.7	52.8	61.8	70.9	74.0	79.4	83.6	85.6	87.0	88.8	89.3	90.3	92.9	95.0	100.0		

TOTAL NUMBER OF OBSERVATIONS 903





GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SEMBACH AB DL

64-67,76-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1500-1700

CEILING FEET		VISIBILITY STATUTE MILES															
		20	26	32	39	47	55	63	72	81	90	100	119	139	159	179	200
NO. OF DAYS	21000	21.2	27.2	33.7	32.6	35.3	35.5	35.8	36.3	36.3	36.4	36.4	36.4	36.4	36.4	36.4	36.4
	20000	24.8	31.6	35.2	37.4	40.2	40.5	40.9	41.6	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8
21800	21800	25.1	31.8	35.4	37.6	40.4	40.7	41.2	41.8	41.9	42.1	42.1	42.1	42.1	42.1	42.1	42.1
	21600	25.2	31.9	35.5	37.7	40.5	40.8	41.3	41.9	42.1	42.2	42.2	42.2	42.2	42.2	42.2	42.2
21400	21400	25.3	32.0	35.8	38.0	40.7	41.1	41.5	42.2	42.3	42.4	42.4	42.4	42.4	42.4	42.4	42.4
	21200	26.3	33.1	37.0	39.2	41.9	42.3	42.7	43.4	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6
21000	21000	27.9	35.0	38.9	41.2	43.9	44.3	44.7	45.4	45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.6
	20800	29.4	36.8	40.7	43.0	45.8	46.1	46.6	47.2	47.4	47.5	47.5	47.5	47.5	47.5	47.5	47.5
20600	20600	31.8	40.3	44.5	46.9	50.7	51.0	51.5	52.2	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4
	20400	33.1	42.3	46.6	49.1	53.1	53.4	54.0	54.6	54.7	54.9	54.9	54.9	54.9	54.9	54.9	54.9
20200	20200	34.0	43.9	48.2	50.9	55.0	55.4	56.0	56.6	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8
	20000	35.3	45.6	49.9	52.5	56.8	57.3	57.8	58.5	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7
19800	19800	38.4	49.0	53.3	56.0	60.5	60.9	61.5	62.1	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4
	19600	42.1	53.1	57.6	60.5	65.1	65.6	66.1	66.8	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0
19400	19400	45.6	57.4	62.3	65.3	70.3	70.8	71.3	72.0	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2
	19200	47.8	60.3	65.3	69.1	74.4	74.8	75.4	76.0	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5
19000	19000	49.8	63.5	69.0	72.8	78.7	79.1	79.7	80.4	80.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9
	18800	50.6	64.5	70.4	74.4	80.6	81.0	81.7	82.3	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9
18600	18600	50.7	64.9	71.1	75.3	81.8	82.6	83.2	83.9	84.1	84.4	84.5	84.5	84.5	84.5	84.5	84.5
	18400	52.1	67.2	74.0	78.5	85.5	86.3	87.1	88.1	88.3	88.7	88.9	88.9	88.9	88.9	88.9	88.9
18200	18200	52.5	67.9	74.8	80.1	87.7	88.5	89.4	90.4	90.6	91.1	91.2	91.2	91.2	91.2	91.2	91.2
	18000	53.0	68.4	75.4	80.8	88.4	89.2	90.1	91.1	91.3	91.7	91.8	91.8	91.8	91.8	91.8	91.8
17800	17800	53.3	68.9	76.3	81.9	89.5	90.3	91.2	92.4	92.9	93.4	93.7	93.7	93.7	93.7	93.7	93.7
	17600	53.4	69.1	76.6	82.5	90.1	90.9	92.2	93.4	93.9	94.4	94.7	94.7	94.7	94.7	94.7	94.7
17400	17400	53.6	69.3	76.8	82.7	90.5	91.4	92.7	93.9	94.5	94.9	95.3	95.3	95.3	95.3	95.3	95.3
	17200	53.6	69.3	76.8	82.8	90.9	91.9	93.5	94.7	95.3	95.8	96.1	96.2	96.2	96.2	96.2	96.2
17000	17000	53.6	69.3	76.8	82.8	91.3	92.3	93.8	95.1	95.7	96.6	96.9	97.0	97.0	97.0	97.0	97.0
	16800	53.6	69.3	76.8	82.8	91.5	92.6	94.3	95.7	96.2	97.4	98.1	98.3	98.3	98.5	98.5	98.5
16600	16600	53.6	69.3	76.8	82.8	91.5	92.6	94.4	95.9	96.5	97.6	98.3	98.6	98.9	99.2	99.2	99.2
	16400	53.6	69.3	76.8	82.8	91.5	92.6	94.4	95.9	96.5	97.6	98.3	98.6	98.9	99.6	99.6	99.9
16200	16200	53.6	69.3	76.8	82.8	91.5	92.6	94.4	95.9	96.5	97.6	98.3	98.6	98.9	99.6	99.6	100.0
	16000	53.6	69.3	76.8	82.8	91.5	92.6	94.4	95.9	96.5	97.6	98.3	98.6	98.9	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 906

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-67,76-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

17.8	29.3	33.3	35.0	39.0	40.1	40.7	41.6	41.9	42.7	43.1	43.1	43.3	43.6	43.9	44.3	19.6	31.1	36.0	37.8	42.0	43.1	43.7	44.8	45.1	46.1	46.5	46.5	46.8	47.0	47.3	47.7	19.6	31.1	36.0	37.8	42.0	43.2	43.9	44.9	45.2	46.2	46.6	46.6	46.9	47.2	47.4	47.8	19.6	31.1	36.0	37.8	42.0	43.2	43.9	44.9	45.2	46.2	46.6	46.6	46.9	47.2	47.4	47.8	19.8	31.2	36.1	37.9	42.2	43.3	44.0	45.1	45.3	46.4	46.8	46.8	47.0	47.3	47.6	48.0	20.6	32.1	37.7	39.0	43.2	44.4	45.1	46.1	46.4	47.4	47.8	47.8	48.1	48.4	48.6	49.0	21.5	33.5	38.5	40.4	44.8	46.0	46.6	47.7	48.0	49.0	49.4	49.4	49.7	49.9	50.2	51.0	22.7	35.2	40.2	42.2	46.5	47.7	48.4	49.4	49.7	50.7	51.1	51.1	51.4	51.6	51.9	52.7	25.0	38.9	44.0	46.4	51.4	52.6	53.5	54.5	54.9	56.1	56.5	56.5	56.8	57.0	57.3	58.1	26.1	40.8	46.5	48.9	54.0	55.2	56.1	57.2	57.6	58.8	59.2	59.2	59.4	59.7	59.9	60.7	27.7	44.3	50.2	52.8	58.0	59.2	60.1	61.1	61.5	62.7	63.1	63.1	63.4	63.6	63.9	64.7	29.4	46.1	52.6	55.2	60.6	61.8	62.8	63.9	64.3	65.5	65.9	65.9	66.1	66.4	66.7	67.5	31.2	48.6	55.6	58.2	63.9	65.1	66.4	67.6	68.1	69.3	69.7	69.7	70.0	70.2	70.5	71.3	32.3	50.2	57.3	60.7	66.7	67.9	69.2	70.4	70.9	72.2	72.6	72.6	72.9	73.1	73.4	74.2	34.4	53.0	60.1	63.5	69.8	71.3	72.9	74.0	74.6	75.9	76.3	76.3	76.5	76.8	77.1	77.9	35.3	54.5	61.8	65.7	72.3	73.8	75.6	76.8	77.3	78.7	79.1	79.1	79.3	79.6	79.8	80.6	36.4	55.9	63.9	68.6	75.6	77.1	78.9	80.4	80.9	82.2	82.6	82.6	82.9	83.1	83.4	84.2	36.6	56.1	64.3	69.0	76.7	78.8	80.9	82.5	83.0	84.3	84.8	84.8	85.1	85.4	85.6	86.6	36.8	56.3	64.4	69.6	77.3	79.4	81.7	83.4	83.9	85.2	85.9	85.9	86.2	86.4	86.7	87.6	37.5	57.3	65.6	71.0	79.2	81.7	84.2	86.3	86.8	88.1	88.8	88.8	89.1	89.3	89.6	90.5	37.8	57.8	66.5	71.9	80.5	83.0	85.5	87.7	88.5	89.9	90.5	90.8	91.0	91.3	92.2	38.1	58.2	66.9	72.5	81.7	84.2	86.7	88.9	89.7	91.0	91.7	91.7	92.0	92.2	92.5	93.4	38.1	58.2	67.1	72.6	82.1	84.6	87.1	89.3	90.4	91.8	92.5	92.5	92.8	93.0	93.3	94.2	38.1	58.2	67.1	72.6	82.1	84.7	87.5	89.7	90.8	92.2	92.9	92.9	93.1	93.4	93.7	94.6	38.1	58.2	67.1	72.6	82.1	84.7	87.7	90.0	91.2	92.6	93.3	93.3	93.5	93.8	94.1	95.0	38.1	58.2	67.1	72.6	82.1	84.7	87.9	90.1	91.4	93.3	93.9	93.9	94.2	94.6	94.9	95.8	38.1	58.2	67.1	72.7	82.5	85.1	88.3	90.5	92.0	93.8	94.5	94.5	94.7	95.4	95.7	96.6	38.1	58.2	67.1	72.7	82.5	85.1	88.5	90.8	92.8	94.6	95.7	95.7	95.9	96.6	96.8	97.8	38.1	58.2	67.1	72.7	82.5	85.1	88.5	90.8	92.8	94.9	95.9	95.9	96.3	97.1	97.4	98.3	38.1	58.2	67.1	72.7	82.5	85.1	88.5	90.8	92.8	95.0	96.2	96.2	96.6	97.5	97.8	99.3	38.1	58.2	67.1	72.7	82.5	85.1	88.5	90.8	92.8	95.0	96.2	96.2	96.6	97.5	97.8	100.0	38.1	58.2	67.1	72.7	82.5	85.1	88.5	90.8	92.8	95.0	96.2	96.2	96.6	97.5	97.8	100.0
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TOTAL NUMBER OF OBSERVATIONS 759

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SEMBACH AB DL

64-67,76-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

2100-2300

CEILING FEET	210	200	180	160	140	120	100	80	60	40	20	10	5	2	1	0
NO CEILING	15.9	25.7	30.3	33.4	37.8	40.2	42.7	44.4	44.9	46.0	46.8	46.8	46.9	47.3	47.7	47.9
2 20000	17.1	27.5	32.0	35.3	40.0	42.4	44.9	46.6	47.1	48.2	49.0	49.0	49.1	49.5	49.9	50.2
2 18000	17.1	27.5	32.0	35.3	40.0	42.4	44.9	46.6	47.1	48.2	49.0	49.0	49.1	49.5	49.9	50.2
2 16000	17.1	27.5	32.0	35.3	40.0	42.4	44.9	46.6	47.1	48.2	49.0	49.0	49.1	49.5	49.9	50.2
2 14000	17.1	27.6	32.2	35.5	40.2	42.7	45.2	46.9	47.4	48.5	49.3	49.3	49.5	49.8	50.2	50.5
2 12000	17.3	27.9	32.5	35.8	40.5	43.0	45.7	47.4	47.9	49.0	49.8	49.8	49.9	50.2	50.7	51.0
2 10000	17.6	28.6	33.4	36.7	41.4	44.0	46.8	48.5	49.0	50.1	50.9	50.9	51.0	51.3	51.8	52.4
2 9000	18.7	30.0	34.9	38.1	42.9	45.4	48.2	49.9	50.4	51.5	52.3	52.3	52.4	52.7	53.2	53.8
2 8000	19.5	32.0	36.9	40.5	45.2	48.0	51.0	52.7	53.2	54.3	55.1	55.1	55.3	55.6	56.0	56.7
2 7000	21.0	34.7	40.0	43.6	48.7	51.5	54.6	56.4	56.8	57.9	58.7	58.7	58.9	59.2	59.7	60.3
2 6000	21.5	35.9	41.8	45.5	50.5	53.4	56.7	58.4	58.9	60.0	60.8	60.8	60.9	61.2	61.7	62.3
2 5000	22.9	38.1	44.3	48.5	53.7	56.7	60.0	61.7	62.2	63.3	64.1	64.1	64.2	64.5	65.0	65.6
2 4500	25.6	41.8	48.2	52.6	58.1	61.1	64.5	66.2	66.7	68.0	68.8	68.8	68.9	69.2	69.7	70.3
2 4000	26.7	43.5	50.4	54.8	60.9	64.7	68.3	70.0	70.5	71.7	72.5	72.5	72.7	73.0	73.5	74.1
2 3500	27.8	46.5	53.7	58.1	64.5	68.3	71.9	73.6	74.1	75.4	76.1	76.1	76.3	76.6	77.1	77.7
2 3000	28.6	48.0	55.6	60.0	66.4	70.3	73.9	75.7	76.1	77.6	78.3	78.3	78.5	78.8	79.3	79.9
2 2500	29.5	49.9	57.8	62.6	69.2	73.5	77.1	78.8	79.6	81.0	81.8	81.8	81.9	82.3	82.7	83.7
2 2000	30.1	50.9	58.9	63.9	70.5	75.0	78.6	80.5	81.3	82.7	83.5	83.5	83.8	84.1	84.6	85.7
2 1800	30.1	50.9	58.9	63.9	70.5	75.2	78.8	80.7	81.6	83.0	83.8	83.8	84.1	84.5	84.9	86.2
2 1500	30.5	51.2	59.3	64.8	71.7	76.8	80.4	82.7	83.7	85.1	85.9	85.9	86.2	86.5	87.0	88.2
2 1200	30.5	51.8	60.0	65.6	73.0	78.2	81.8	84.3	85.2	86.8	87.6	87.6	87.9	88.2	88.7	90.0
2 1000	30.6	52.3	60.4	66.1	73.5	78.8	82.7	85.2	86.2	87.8	88.5	88.5	88.9	89.2	89.6	90.9
2 900	30.6	52.4	60.6	66.4	73.9	79.3	83.5	86.2	87.1	88.7	89.5	89.5	89.8	90.1	90.6	91.8
2 800	30.6	52.4	60.6	66.4	74.1	79.4	84.0	86.7	87.6	89.2	90.0	90.0	90.3	90.6	91.1	92.3
2 700	30.6	52.4	60.6	66.4	74.1	79.4	84.0	86.7	87.6	89.2	90.0	90.0	90.3	90.6	91.1	92.3
2 600	30.6	52.7	60.9	66.7	74.6	80.1	84.8	87.4	88.4	90.0	90.7	90.7	91.1	91.7	92.3	93.6
2 500	30.6	52.7	60.9	66.7	74.9	80.4	85.1	87.8	88.7	90.3	91.1	91.1	91.4	92.0	92.6	93.9
2 400	30.6	52.7	60.9	66.7	74.9	80.4	85.6	88.5	89.8	91.5	92.3	92.3	92.6	93.2	93.9	95.1
2 300	30.6	52.7	60.9	66.7	74.9	80.4	85.6	88.5	90.0	92.2	93.1	93.1	93.4	94.0	94.7	95.9
2 200	30.6	52.7	60.9	66.7	74.9	80.4	85.6	88.5	90.1	92.3	93.6	93.6	93.9	95.0	95.6	97.6
2 100	30.6	52.7	60.9	66.7	74.9	80.4	85.6	88.5	90.1	92.3	93.6	93.6	93.9	95.1	96.2	99.5
2 0	30.6	52.7	60.9	66.7	74.9	80.4	85.6	88.5	90.1	92.3	93.6	93.6	93.9	95.1	96.2	100.0

TOTAL NUMBER OF OBSERVATIONS 637

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

17120 SEMBACH AB DL

64-67,77,79

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0000-0200

2.4	8.3	9.7	13.1	15.8	18.8	19.8	20.4	20.9	21.7	22.0	22.0	22.0	22.0	22.0	23.3
2.4	8.3	9.7	13.1	15.8	18.8	19.8	20.4	20.9	21.7	22.0	22.0	22.0	22.0	22.0	23.3
2.4	8.3	9.7	13.1	15.8	18.8	19.8	20.4	20.9	21.7	22.0	22.0	22.0	22.0	22.0	23.3
2.4	8.3	9.7	13.1	15.8	18.8	19.8	20.4	20.9	21.7	22.0	22.0	22.0	22.0	22.0	23.3
2.4	8.3	9.7	13.1	15.8	18.8	19.8	20.4	20.9	21.7	22.0	22.0	22.0	22.0	22.0	23.3
2.4	8.3	9.7	13.1	15.8	18.8	19.8	20.4	21.2	22.0	22.3	22.3	22.3	22.3	22.3	23.6
2.7	8.6	9.9	13.4	16.1	19.0	20.1	20.6	21.4	22.3	22.5	22.5	22.5	22.5	22.5	23.9
2.7	9.1	10.5	13.9	16.6	19.6	20.6	21.2	22.0	22.8	23.1	23.1	23.1	23.1	23.1	24.4
3.2	11.0	12.6	16.9	19.8	22.8	24.1	24.7	25.5	26.3	26.5	26.5	26.5	26.5	26.5	27.9
3.2	11.5	13.1	17.7	20.6	23.6	25.2	25.7	26.8	27.6	28.2	28.2	28.2	28.2	28.2	29.5
3.8	13.7	15.3	20.6	23.6	26.5	28.2	28.7	29.8	30.6	31.1	31.1	31.1	31.1	31.1	32.4
4.3	15.0	16.6	22.0	24.9	27.9	30.0	30.6	31.6	33.0	33.5	33.5	33.5	33.5	33.5	34.9
4.3	15.0	16.6	22.5	25.7	29.0	31.9	32.7	33.8	35.1	35.7	35.7	35.7	35.7	35.7	37.0
4.8	15.5	17.4	23.6	26.8	30.0	33.0	33.8	34.9	36.2	36.7	36.7	36.7	36.7	36.7	38.1
4.8	16.4	18.2	24.4	27.6	31.1	34.0	34.9	35.9	37.3	37.8	37.8	37.8	37.8	37.8	39.1
5.4	17.7	19.6	26.3	29.8	33.5	36.5	37.3	38.3	39.7	40.2	40.2	40.2	40.2	40.2	41.6
5.9	18.9	20.4	27.3	31.1	35.1	38.3	39.1	40.2	41.6	42.1	42.1	42.1	42.1	42.1	43.4
5.9	19.0	21.2	28.2	32.7	36.7	40.5	41.8	42.9	44.2	44.8	44.8	44.8	44.8	44.8	46.1
5.9	19.6	22.0	29.0	34.0	38.1	41.8	43.2	44.2	45.6	46.1	46.1	46.1	46.1	46.1	47.5
5.9	24.1	28.4	35.7	41.0	45.0	48.8	50.1	51.2	52.5	53.1	53.1	53.1	53.1	53.1	54.4
6.2	26.3	32.4	40.8	46.9	50.9	55.5	57.6	58.7	60.1	60.6	60.6	60.9	60.9	60.9	62.2
6.2	26.5	33.2	41.8	48.5	52.8	57.9	60.1	61.1	62.5	63.0	63.0	63.3	63.3	63.3	64.6
6.2	26.8	33.8	42.9	49.6	54.2	59.5	61.9	63.0	64.3	64.9	64.9	65.1	65.1	65.1	66.5
6.2	27.1	34.0	44.0	5.2	55.8	61.9	64.3	65.4	66.8	67.3	67.3	67.6	67.6	67.6	68.9
6.2	27.1	35.1	45.0	53.1	58.4	64.6	67.3	68.4	69.7	70.2	70.2	70.5	70.5	70.5	71.8
6.2	27.3	35.7	46.1	54.4	60.6	66.8	70.0	7.0	72.4	73.5	73.7	74.0	74.0	74.0	75.3
6.2	27.3	36.2	47.7	57.4	64.3	72.4	77.2	78.3	79.6	81.0	81.5	81.8	82.3	82.3	83.6
6.2	27.3	36.2	48.0	57.6	65.7	74.8	79.9	81.0	82.8	85.0	85.8	86.3	86.9	86.9	88.3
6.2	27.3	36.2	48.0	57.6	65.7	75.6	81.0	82.3	84.5	86.6	87.4	87.9	88.7	88.7	91.2
6.2	27.3	36.2	48.0	57.6	65.7	75.6	81.8	83.1	85.8	88.2	89.0	89.5	90.3	90.3	95.2
6.2	27.3	36.2	48.0	57.6	65.7	75.6	81.8	83.1	85.8	88.5	89.5	90.1	91.4	91.4	100.0
6.2	27.3	36.2	48.0	57.6	65.7	75.6	81.8	83.1	85.8	88.5	89.5	90.1	91.4	91.4	100.0

TOTAL NUMBER OF OBSERVATIONS 373

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

10120 SEMBACH AB DL

64-67,76-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

3300-2500

USE IN MATRICES																	
CEILING	10	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	100
1000	3.8	7.9	7.9	10.9	13.4	14.4	15.3	15.5	15.5	15.9	16.5	16.5	16.5	16.9	17.2	18.8	
900	3.8	7.7	8.2	11.1	13.6	14.6	15.7	15.9	15.9	16.3	16.9	16.9	16.9	17.4	17.8	19.5	
800	3.6	7.7	8.2	11.1	13.6	14.6	15.7	15.9	15.9	16.3	16.9	16.9	16.9	17.4	17.8	19.5	
700	3.8	7.7	8.2	11.1	13.6	14.6	15.7	15.9	15.9	16.3	16.9	16.9	16.9	17.4	17.8	19.5	
600	3.8	7.7	8.2	11.1	13.6	14.6	15.7	15.9	15.9	16.3	16.9	16.9	16.9	17.4	17.8	19.5	
500	3.8	7.9	8.4	11.3	13.8	14.9	15.9	16.1	16.1	16.5	17.2	17.2	17.4	17.8	18.2	19.9	
400	4.0	8.2	8.6	11.5	14.0	15.5	16.5	16.7	16.7	17.2	17.8	17.8	18.0	18.6	19.0	20.9	
300	4.0	8.2	8.6	11.5	14.0	15.7	16.7	16.9	16.9	17.4	18.0	18.0	18.2	18.8	19.2	21.1	
200	4.6	9.4	9.8	13.0	15.5	17.2	18.2	18.6	18.8	19.2	19.9	20.1	20.3	20.9	21.3	23.2	
100	4.8	10.7	11.3	14.6	17.2	18.8	19.9	20.3	20.5	20.9	21.5	21.8	22.0	22.6	23.0	24.9	
50	5.2	11.3	12.1	15.7	18.6	20.3	21.3	21.8	22.6	23.0	23.6	23.8	24.1	24.7	25.1	27.0	
0	6.1	12.3	13.2	17.8	20.9	22.6	23.6	24.5	25.5	25.9	26.6	26.8	27.0	27.6	28.0	29.9	
1000	6.7	13.2	14.0	18.6	21.8	23.6	25.7	26.6	27.6	28.0	28.7	28.9	29.1	29.9	30.3	32.2	
900	7.1	14.6	15.7	20.5	23.6	25.5	28.0	28.9	29.9	30.3	31.0	31.2	31.4	32.2	32.6	33.5	35.8
800	7.3	15.7	16.7	21.5	24.9	26.8	29.3	30.1	31.2	31.6	32.2	32.4	32.6	33.5	33.9	35.8	
700	7.5	16.5	18.2	23.6	27.4	29.3	31.8	32.6	33.7	34.1	34.7	34.9	35.1	36.0	36.4	38.3	
600	9.0	18.8	20.5	25.9	30.3	32.8	35.4	36.2	37.2	37.7	38.3	38.5	38.7	39.5	40.0	41.8	
500	9.6	21.1	23.6	29.7	34.7	37.2	41.0	41.8	42.9	43.3	43.9	44.1	44.4	45.2	45.6	47.5	
400	9.8	21.5	24.1	30.1	35.8	38.3	42.1	42.9	43.9	44.4	45.0	45.2	45.4	46.2	46.7	48.5	
300	10.9	24.9	28.2	34.9	40.8	43.5	47.3	48.3	49.4	49.8	50.4	50.6	50.8	51.7	52.1	54.2	
200	11.7	27.6	33.1	40.2	46.4	49.4	53.3	54.4	55.4	56.1	56.7	56.9	57.1	57.9	58.4	60.5	
100	11.7	28.2	33.9	41.4	49.0	52.7	56.7	57.7	58.8	59.4	60.0	60.3	60.5	61.3	61.7	63.8	
50	11.9	29.3	35.1	43.1	50.8	54.8	58.8	60.5	61.5	62.1	62.8	63.0	63.2	64.0	64.4	66.5	
0	11.9	29.7	35.6	43.5	51.3	55.9	59.8	61.5	63.0	63.6	64.2	64.4	64.6	65.5	65.9	68.0	
1000	12.1	30.1	36.2	44.4	52.3	57.5	62.3	64.0	65.5	66.1	66.7	66.9	67.2	68.0	68.4	70.5	
900	12.3	30.8	37.2	45.6	55.0	60.5	66.3	68.6	70.1	70.7	71.3	71.8	72.0	72.8	73.2	75.5	
800	12.3	30.8	37.4	46.4	56.7	63.2	69.7	72.2	74.3	74.9	75.7	76.2	76.4	77.4	77.8	80.5	
700	12.3	30.8	37.4	46.4	57.3	64.9	73.0	76.4	78.7	79.5	80.8	81.2	82.0	83.3	83.7	87.2	
600	12.3	30.8	37.4	46.4	57.3	64.9	74.1	78.2	80.8	81.6	83.3	83.7	84.5	85.8	86.2	89.7	
500	12.3	30.8	37.4	46.4	57.3	65.3	74.5	78.9	82.0	83.3	85.1	85.6	86.4	87.9	88.5	95.2	
400	12.3	30.8	37.4	46.4	57.3	65.3	74.5	78.9	82.4	83.9	86.2	86.6	87.4	88.9	89.7	100.0	
300	12.3	30.8	37.4	46.4	57.3	65.3	74.5	78.9	82.4	83.9	86.2	86.6	87.4	88.9	89.7	100.0	

TOTAL NUMBER OF OBSERVATIONS 478

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1220 SEMBACH AB DL

64-67,76-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0600-0800

	20	26	2	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100
1000	5.8	8.6	9.9	11.8	14.2	15.2	16.9	17.6	17.6	18.0	18.1	18.1	18.1	18.4	19.6	20.4							
900	6.2	9.2	10.5	12.3	14.7	15.7	17.4	18.1	18.1	18.6	18.7	18.7	18.7	19.0	19.1	21.2							
800	6.4	9.3	10.6	12.5	14.9	15.9	17.6	18.3	18.3	18.7	18.8	18.8	18.8	19.1	19.3	21.4							
700	6.4	9.3	10.6	12.5	14.9	15.9	17.6	18.3	18.3	18.7	18.8	18.8	18.8	19.1	19.3	21.4							
600	6.4	9.3	10.6	12.5	14.9	15.9	17.6	18.3	18.3	18.7	18.8	18.8	18.8	19.1	19.3	21.4							
500	6.8	9.8	11.0	12.9	15.3	16.3	18.0	18.7	18.7	19.1	19.3	19.3	19.3	19.5	19.7	21.8							
400	6.8	9.8	11.0	13.0	15.6	16.6	18.3	19.0	19.0	19.4	19.5	19.5	19.5	19.8	20.0	22.4							
300	7.1	10.6	11.9	13.9	16.6	17.6	19.3	20.0	20.0	20.4	20.5	20.5	20.5	20.8	21.0	23.4							
200	7.1	10.9	12.2	14.2	16.9	18.1	19.8	20.5	20.5	21.0	21.1	21.1	21.1	21.4	21.5	24.1							
100	7.5	11.6	13.0	15.0	17.8	19.1	20.8	21.5	21.5	22.1	22.2	22.2	22.2	22.5	22.7	25.2							
50	8.8	13.3	14.9	17.1	20.4	21.8	23.9	24.6	24.6	25.2	25.4	25.4	25.4	25.6	25.8	28.3							
25	9.2	14.0	15.6	17.8	21.2	23.1	25.2	25.9	26.1	26.6	26.8	26.8	26.8	27.3	27.5	30.0							
15	10.2	15.4	17.3	19.8	23.7	25.9	28.3	29.0	29.3	29.9	30.0	30.0	30.0	30.6	30.7	33.3							
10	11.0	16.6	18.6	21.4	25.5	27.8	30.3	31.2	31.6	32.2	32.3	32.3	32.3	32.9	33.0	35.6							
5	11.8	17.8	20.7	23.9	28.6	30.9	33.9	34.7	35.1	35.7	35.8	35.8	35.8	36.4	36.5	39.1							
2	12.9	20.4	23.5	26.8	32.0	34.6	37.7	38.5	39.0	39.5	39.7	39.7	39.7	40.2	40.4	42.9							
1	14.0	22.8	26.3	29.7	35.0	37.5	40.7	41.5	42.2	42.8	42.9	42.9	42.9	43.5	43.6	46.2							
0.5	14.7	23.8	27.5	31.0	36.5	39.1	42.4	43.3	44.1	44.6	44.8	44.8	44.8	45.3	45.5	48.0							
0.2	17.1	28.2	32.6	36.8	43.5	46.0	49.6	50.7	51.4	52.0	52.1	52.1	52.1	52.7	52.8	55.4							
0.1	18.4	30.9	36.8	41.8	49.0	52.1	55.8	57.4	58.1	58.6	58.9	58.9	58.9	59.6	59.8	62.3							
0.05	18.6	31.4	37.8	43.5	51.4	55.0	58.6	60.3	61.0	61.8	62.3	62.3	62.3	63.0	63.2	65.7							
0.02	18.6	31.7	38.4	44.2	52.4	56.1	59.8	61.8	62.7	63.5	64.0	64.0	64.0	64.7	64.9	67.4							
0.01	18.7	32.3	39.9	46.0	54.8	58.6	62.7	64.7	65.7	66.4	67.0	67.0	67.0	67.7	67.8	70.4							
0.005	19.3	32.9	40.5	47.0	57.1	61.2	65.4	67.4	68.4	69.4	70.1	70.1	70.1	70.8	71.0	73.5							
0.002	19.3	33.0	40.8	47.5	58.8	63.5	68.7	71.5	72.7	73.7	74.4	74.5	74.5	75.2	75.4	78.2							
0.001	19.4	33.1	40.9	47.7	59.6	64.7	70.8	73.7	75.2	76.3	77.2	77.5	77.5	78.2	78.3	81.2							
0.0005	19.5	33.3	41.1	47.9	60.2	65.7	72.7	75.8	78.0	80.0	81.2	81.4	81.4	82.3	82.4	85.7							
0.0002	19.5	33.3	41.1	48.0	60.6	66.3	73.7	77.8	80.5	82.9	84.3	84.6	84.6	85.6	85.7	89.1							
0.0001	19.5	33.3	41.1	48.0	60.6	66.4	74.1	78.5	81.9	84.7	86.7	87.8	88.0	89.7	90.1	96.9							
0.00005	19.5	33.3	41.1	48.0	60.6	66.4	74.1	78.5	81.9	84.7	86.7	88.0	88.1	90.2	91.4	100.0							
0.00002	19.5	33.3	41.1	48.0	60.6	66.4	74.1	78.5	81.9	84.7	86.7	88.0	88.1	90.2	91.4	100.0							

TOTAL NUMBER OF OBSERVATIONS 706





GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1200 SEMBACH AB DL

64-67,76-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1200-1400

CEILING	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
1000	10.7	15.9	17.3	19.0	20.6	21.2	21.2	21.3	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.7
900	12.6	17.9	19.4	21.3	23.1	23.7	23.7	23.8	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.3
800	12.7	18.0	19.5	21.4	23.3	23.8	23.8	24.0	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.4
700	12.8	18.1	19.7	21.5	23.4	24.0	24.0	24.1	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.5
600	13.3	18.6	20.1	22.0	23.8	24.4	24.4	24.5	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	25.0
500	13.5	18.8	20.3	22.2	24.3	24.9	24.9	25.0	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.5
400	14.0	19.4	20.9	22.8	25.0	25.6	25.6	25.7	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	26.2
300	14.8	20.3	21.9	23.7	26.2	26.7	26.7	26.9	27.0	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.4
200	15.6	21.3	22.8	24.7	27.1	27.7	27.7	27.8	27.9	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.4
100	16.4	22.3	24.1	25.9	28.5	29.2	29.2	29.3	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.9
50	16.7	23.0	24.8	26.6	29.3	30.0	30.0	30.1	30.2	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.7
0	17.6	23.8	25.7	27.7	30.5	31.2	31.2	31.3	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.9
1000	18.3	24.7	26.7	29.0	32.1	33.0	33.0	33.1	33.3	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.7
900	20.3	27.4	29.8	32.1	35.5	36.6	36.7	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.8
800	23.3	31.3	34.0	36.4	40.5	41.6	41.9	42.3	42.4	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.9
700	26.5	35.0	37.9	40.6	44.8	45.9	46.2	46.6	46.7	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	47.2
600	29.7	38.8	42.2	45.0	49.8	50.9	51.3	51.7	51.9	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.4
500	32.3	42.4	46.2	49.5	55.0	56.2	56.7	57.2	57.3	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.9
400	32.7	42.9	46.7	50.8	56.4	57.7	58.4	58.8	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.5
300	34.9	46.5	50.9	55.5	61.4	62.9	63.8	64.3	64.4	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.3
200	35.6	49.0	54.8	60.1	67.2	69.0	70.3	70.8	70.9	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	72.1
100	36.4	50.7	57.6	63.6	71.6	73.4	74.9	75.5	75.6	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.9
50	36.6	51.3	58.4	64.9	74.3	76.2	77.9	78.7	78.8	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	80.2
0	36.6	51.5	59.0	65.9	75.9	78.0	80.0	80.8	81.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	82.6
1000	36.7	51.9	59.4	66.6	76.9	79.3	81.5	82.9	83.1	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.8
900	36.7	51.9	59.4	66.9	77.7	80.6	83.1	85.2	85.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.7
800	36.7	51.9	59.4	67.0	78.1	82.0	84.7	87.6	88.3	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	90.7
700	36.7	51.9	59.4	67.0	78.3	82.2	85.7	89.3	90.2	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	93.6
600	36.7	51.9	59.4	67.0	78.4	82.3	85.9	89.9	90.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	96.5
500	36.7	51.9	59.4	67.0	78.4	82.4	86.0	90.0	91.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	99.4
400	36.7	51.9	59.4	67.0	78.4	82.4	86.0	90.0	91.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	100.0
300	36.7	51.9	59.4	67.0	78.4	82.4	86.0	90.0	91.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	100.0
200	36.7	51.9	59.4	67.0	78.4	82.4	86.0	90.0	91.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	100.0
100	36.7	51.9	59.4	67.0	78.4	82.4	86.0	90.0	91.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	100.0
50	36.7	51.9	59.4	67.0	78.4	82.4	86.0	90.0	91.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	100.0
0	36.7	51.9	59.4	67.0	78.4	82.4	86.0	90.0	91.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	100.0

TOTAL NUMBER OF OBSERVATIONS 860

## CEILING VERSUS VISIBILITY

NOV

1500-1700

TOTAL NUMBER OF OBSERVATIONS 855

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SEMBACH AB DL

64-67,76-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1800-2000

CEILING	14.1	18.1	22.4	24.5	27.5	28.0	28.5	28.7	28.7	28.7	28.7	28.7	28.8	28.8	29.0	29.0	30.4
1 2000	16.0	20.0	24.4	27.0	30.0	30.4	31.0	31.1	31.1	31.1	31.1	31.1	31.2	31.2	31.4	31.4	32.8
2 1800	16.0	20.0	24.4	27.0	30.0	30.4	31.0	31.1	31.1	31.1	31.1	31.1	31.2	31.2	31.4	31.4	32.8
3 1600	16.0	20.0	24.4	27.0	30.0	30.4	31.0	31.1	31.1	31.1	31.1	31.1	31.2	31.2	31.4	31.4	32.8
4 1400	16.0	20.0	24.5	27.1	30.1	30.5	31.1	31.2	31.2	31.2	31.2	31.2	31.4	31.4	31.5	31.5	33.2
5 1200	16.0	20.3	24.8	27.4	30.4	30.8	31.4	31.5	31.5	31.5	31.5	31.5	31.7	31.7	31.8	31.8	33.5
6 1000	17.0	21.3	26.0	28.5	31.5	32.0	32.5	32.7	32.7	32.7	32.7	32.7	32.8	32.8	33.0	33.0	34.7
7 800	17.7	22.3	27.2	29.8	32.8	33.4	34.0	34.1	34.1	34.1	34.1	34.1	34.2	34.2	34.4	34.4	36.1
8 600	18.8	24.1	29.1	31.8	35.0	35.5	36.4	36.7	36.9	36.9	36.9	36.9	37.1	37.1	37.2	37.2	38.9
9 400	19.1	24.8	30.0	32.7	36.1	36.7	37.5	37.8	38.1	38.1	38.1	38.1	38.2	38.2	38.4	38.4	40.1
10 200	19.8	26.1	31.2	34.1	37.9	38.8	39.8	40.2	40.5	40.5	40.5	40.5	40.7	40.7	40.8	40.8	42.5
11 100	20.5	27.1	32.2	35.1	38.9	39.8	40.8	41.2	41.5	41.5	41.5	41.5	41.7	41.7	41.8	41.8	43.5
12 50	21.3	28.2	33.7	36.7	40.9	41.8	42.9	43.4	43.7	43.7	43.7	43.7	43.8	43.8	43.9	43.9	45.6
13 0	22.3	30.2	35.8	38.9	43.5	44.5	45.9	46.6	46.9	46.9	46.9	46.9	47.1	47.1	47.2	47.2	48.9
14 1000	24.0	32.0	37.7	41.1	45.8	46.8	48.2	49.1	49.4	49.4	49.4	49.4	49.5	49.6	49.8	49.8	51.5
15 800	25.4	34.4	40.9	44.7	49.6	50.8	52.2	53.1	53.4	53.4	53.4	53.4	53.5	53.6	53.8	53.8	55.5
16 600	26.8	37.1	44.2	49.6	54.6	55.8	57.6	58.6	59.1	59.1	59.1	59.1	59.2	59.3	59.5	59.5	61.2
17 400	28.0	39.1	47.2	53.4	59.3	60.5	62.6	63.6	64.1	64.1	64.1	64.1	64.3	64.5	64.6	64.6	66.3
18 200	28.5	39.8	47.9	54.9	61.2	62.3	64.8	65.8	66.2	66.2	66.2	66.2	66.5	66.6	66.8	66.8	68.5
19 100	29.2	41.4	49.6	57.1	63.3	64.6	67.2	68.5	69.0	69.0	69.0	69.0	69.3	69.5	69.6	69.6	71.3
20 50	30.0	44.2	52.9	60.8	68.0	70.0	73.2	74.5	75.3	75.3	75.3	75.3	75.6	75.7	75.9	75.9	77.6
21 0	30.0	44.5	53.2	61.3	69.3	71.5	74.8	76.2	77.0	77.0	77.0	77.0	77.3	77.5	77.6	77.6	79.3
22 1000	30.0	45.1	54.2	62.6	71.3	73.5	77.2	78.6	79.6	79.6	79.6	79.6	79.9	80.0	80.2	80.2	81.9
23 800	30.1	45.8	55.2	64.1	73.3	75.6	79.7	81.2	82.2	82.2	82.2	82.2	82.5	82.6	82.7	82.7	84.5
24 600	30.1	45.8	55.5	64.3	74.8	77.3	81.6	83.0	84.0	84.0	84.0	84.0	84.3	84.5	84.6	84.6	86.3
25 400	30.1	45.8	55.6	64.5	75.0	77.7	82.6	84.7	85.7	85.9	86.2	86.4	86.6	86.7	86.7	86.7	88.4
26 200	30.4	46.1	55.9	64.8	75.3	78.0	83.0	86.2	87.3	87.4	87.7	88.4	88.6	88.7	88.7	88.7	90.4
27 100	30.4	46.1	55.9	64.8	75.3	78.5	84.0	88.3	90.0	90.4	90.7	91.6	91.7	91.9	91.9	91.9	94.0
28 50	30.4	46.1	55.9	64.8	75.3	79.0	84.6	89.7	91.6	92.6	92.9	93.7	94.2	94.3	94.3	94.3	96.4
29 0	30.4	46.1	55.9	64.8	75.3	79.0	84.6	89.9	91.9	92.9	93.3	94.4	95.0	95.3	95.4	95.4	97.6
30 1000	30.4	46.1	55.9	64.8	75.3	79.0	84.6	89.9	91.9	92.9	93.3	94.4	95.1	95.9	96.4	96.4	99.9
31 800	30.4	46.1	55.9	64.8	75.3	79.0	84.6	89.9	91.9	92.9	93.3	94.4	95.1	95.9	96.4	96.4	100.0

TOTAL NUMBER OF OBSERVATIONS 701

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

7120

SEMBACH AB DL

64-67,76-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

2100-2300

CEILING FEET	VISIBILITY STAT. IN MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	9.4	14.3	17.0	18.7	21.3	23.2	24.2	24.4	24.5	24.7	24.7	24.7	24.9	25.4	25.4	25.7
≥ 20000	10.4	15.5	18.6	20.3	22.8	24.7	25.7	25.9	26.1	26.4	26.4	26.4	26.6	27.1	27.1	27.4
≥ 18000	10.4	15.5	18.6	20.3	22.8	24.7	25.7	25.9	26.1	26.4	26.4	26.4	26.6	27.1	27.1	27.4
≥ 16000	10.4	15.5	18.6	20.3	22.8	24.7	25.7	25.9	26.1	26.4	26.4	26.4	26.6	27.1	27.1	27.4
≥ 14000	10.6	15.7	18.7	20.4	23.0	24.9	25.9	26.1	26.2	26.6	26.6	26.6	26.7	27.3	27.3	27.6
≥ 12000	10.6	15.8	18.9	20.6	23.2	25.0	26.1	26.2	26.4	26.7	26.7	26.7	26.9	27.4	27.4	27.8
≥ 10000	11.2	16.5	19.6	21.3	23.9	25.7	26.7	26.9	27.1	27.4	27.4	27.4	27.6	28.1	28.1	28.4
≥ 9000	12.1	16.2	21.6	23.5	26.1	27.9	29.0	29.1	29.3	29.6	29.6	29.8	30.0	30.5	30.5	30.8
≥ 8000	12.3	19.4	23.2	25.2	27.8	29.6	30.7	31.0	31.2	31.5	31.5	31.7	31.9	32.4	32.4	32.7
≥ 7000	12.6	20.4	24.2	26.6	29.3	31.5	32.5	32.9	33.2	33.6	33.6	33.7	33.9	34.4	34.4	34.8
≥ 6000	13.3	21.5	25.4	28.1	31.2	33.7	34.9	35.3	35.9	36.3	36.3	36.5	36.6	37.1	37.1	37.5
≥ 5000	13.8	22.7	26.9	29.6	32.7	35.3	36.5	36.8	37.5	37.8	37.8	38.0	38.2	38.7	38.7	39.0
≥ 4500	15.5	24.9	29.5	32.5	36.1	39.2	40.5	40.9	41.6	41.9	41.9	42.1	42.2	42.8	42.8	43.1
≥ 4000	16.9	26.6	31.5	34.8	38.8	42.2	44.0	44.3	45.0	45.3	45.3	45.5	45.7	46.2	46.2	46.5
≥ 3500	17.4	27.3	32.5	36.1	40.4	43.8	45.7	46.0	46.7	47.0	47.0	47.2	47.4	47.9	47.9	48.2
≥ 3000	18.9	29.8	35.1	38.8	43.1	47.0	49.2	49.7	50.6	50.9	50.9	51.1	51.3	51.8	51.8	52.1
≥ 2500	19.6	31.5	37.1	42.2	47.0	51.6	54.2	54.7	55.5	55.9	55.9	56.0	56.2	56.7	56.7	57.2
≥ 2000	19.8	32.9	39.0	44.8	50.1	55.0	57.8	58.3	59.1	59.5	59.5	59.6	59.8	60.3	60.3	60.8
≥ 1800	20.3	34.4	40.5	46.5	52.0	57.1	59.8	60.3	61.2	61.5	61.5	61.7	61.8	62.4	62.4	62.9
≥ 1500	21.0	36.3	42.4	49.4	55.0	60.5	63.2	63.7	64.6	64.9	64.9	65.1	65.2	65.8	65.8	66.3
≥ 1200	21.5	37.8	44.8	52.3	59.6	65.8	68.5	69.2	70.4	70.7	70.7	70.9	71.0	71.6	71.6	72.1
≥ 1000	21.5	38.0	45.7	53.5	61.3	67.6	70.9	71.6	72.7	73.1	73.1	73.3	73.4	73.9	73.9	74.4
≥ 900	21.5	38.2	46.0	54.5	62.7	69.0	72.6	73.3	74.4	74.8	74.8	75.0	75.1	75.6	75.6	76.1
≥ 800	21.6	38.3	46.2	54.9	64.1	70.5	74.3	75.0	76.1	76.5	76.7	76.8	77.2	77.7	77.7	78.2
≥ 700	21.6	38.5	46.7	55.4	65.4	72.4	76.8	77.7	78.9	79.2	79.4	79.6	79.9	80.4	80.4	80.9
≥ 600	21.6	38.5	47.2	55.9	66.8	73.9	78.7	79.4	80.9	81.3	81.8	82.3	82.6	83.1	83.1	83.6
≥ 500	21.8	38.8	47.5	56.2	67.6	75.0	80.7	82.3	83.6	84.2	84.7	85.5	85.9	86.4	86.4	86.9
≥ 400	21.8	38.8	47.5	56.2	67.6	76.1	82.8	85.0	86.5	87.2	87.7	88.9	89.3	89.8	89.8	90.8
≥ 300	21.8	38.8	47.5	56.2	67.6	76.1	83.3	85.5	87.1	88.1	89.3	90.8	91.1	91.7	91.7	92.7
≥ 200	21.8	38.8	47.5	56.2	67.6	76.1	83.5	85.7	87.4	88.6	89.8	91.3	91.7	92.3	92.3	94.2
≥ 100	21.8	39.0	47.7	56.4	67.8	76.3	83.6	85.9	87.6	88.8	89.9	91.7	92.5	94.5	94.5	99.5
≥ 0	21.8	39.0	47.7	56.4	67.8	76.3	83.6	85.9	87.6	88.8	89.9	91.7	92.5	94.5	95.1	100.0

TOTAL NUMBER OF OBSERVATIONS 587



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7120

SEMBACH AB DL

64-67,77,79

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY IN STATUTE MILES															
	2.0	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
2.0	2.4	9.9	12.0	13.4	14.7	15.0	15.2	17.9	18.4	18.7	18.7	18.7	18.7	18.7	19.5	19.5
2.2	2.4	9.9	12.0	13.4	14.7	15.0	15.2	17.9	18.4	18.7	18.7	18.7	18.7	18.7	19.5	19.5
2.4	2.4	9.9	12.0	13.4	14.7	15.0	15.2	17.9	18.4	18.7	18.7	18.7	18.7	18.7	19.5	19.5
2.6	2.4	9.9	12.0	13.4	14.7	15.0	15.2	17.9	18.4	18.7	18.7	18.7	18.7	18.7	19.5	19.5
2.8	2.4	9.9	12.0	13.4	14.7	15.0	15.2	17.9	18.4	18.7	18.7	18.7	18.7	18.7	19.5	19.5
3.0	2.7	10.2	12.3	13.6	15.0	15.2	15.5	18.2	18.7	19.0	19.0	19.0	19.0	19.0	19.8	19.8
3.2	2.7	10.7	12.8	14.2	15.5	15.8	16.0	18.7	19.1	19.5	19.5	19.5	19.5	20.3	20.3	20.3
3.4	2.7	11.0	13.1	14.4	15.8	16.0	16.3	19.0	19.5	19.8	19.8	19.8	19.8	20.6	20.6	20.6
3.6	2.9	12.3	14.7	16.0	17.4	17.6	17.9	20.6	21.1	21.4	21.4	21.4	21.4	22.2	22.2	22.2
3.8	3.5	14.4	17.4	19.5	21.1	21.4	21.7	24.3	24.9	25.1	25.1	25.1	25.1	25.9	25.9	25.9
4.0	3.5	16.8	20.1	22.5	25.9	26.2	26.5	29.1	29.7	29.9	29.9	29.9	29.9	30.7	30.7	30.7
4.2	3.5	17.6	20.9	23.3	27.3	28.1	28.3	31.0	31.6	31.8	31.8	31.8	31.8	32.6	32.6	32.6
4.4	3.7	18.2	21.9	24.6	28.6	29.4	29.7	32.4	32.9	33.7	33.7	33.7	33.7	34.5	34.5	34.8
4.6	4.3	22.5	26.2	28.9	32.9	33.7	34.0	36.6	37.2	38.0	38.0	38.0	38.0	38.8	38.8	39.0
4.8	4.5	24.9	28.9	32.1	36.1	37.2	37.4	40.1	40.6	41.4	41.4	41.4	41.4	42.2	42.2	42.5
5.0	5.1	27.0	31.0	34.5	38.5	39.6	39.8	42.5	43.0	43.9	43.9	43.9	43.9	44.7	44.7	44.9
5.2	5.3	30.2	34.2	38.0	42.5	43.9	44.4	47.1	47.6	48.7	48.7	48.9	48.9	49.7	49.7	50.0
5.4	5.3	32.1	36.4	40.4	46.0	47.6	48.4	51.1	51.6	52.7	52.7	52.9	52.9	53.7	53.7	54.0
5.6	5.3	34.0	38.2	42.2	48.4	50.3	51.1	53.7	54.3	55.3	55.3	55.6	55.6	56.4	56.4	56.7
5.8	5.3	36.4	41.7	46.0	52.7	54.8	55.6	58.3	58.8	59.9	59.9	60.2	60.2	61.0	61.0	61.2
6.0	5.3	39.0	47.1	51.6	58.6	61.2	63.1	65.8	66.3	67.4	67.4	67.6	67.6	68.4	68.4	68.7
6.2	5.3	40.1	49.5	55.8	63.1	65.8	67.6	70.3	70.9	71.9	71.9	72.2	72.2	73.0	73.0	73.3
6.4	5.3	40.4	50.3	56.4	64.2	67.9	70.1	72.7	73.3	74.3	74.3	74.6	74.6	75.4	75.4	75.7
6.6	5.3	41.4	52.1	59.1	67.1	71.1	73.3	76.2	76.7	77.8	77.8	78.1	78.1	78.9	78.9	79.1
6.8	5.3	42.0	53.5	61.2	69.5	74.1	76.5	79.7	80.2	81.3	81.3	81.6	81.6	82.4	82.4	82.6
7.0	5.3	42.0	54.0	61.8	70.1	74.9	78.1	81.3	81.8	82.9	83.2	83.4	83.4	84.2	84.2	84.5
7.2	5.3	42.0	54.0	62.0	70.6	76.2	79.7	82.9	83.4	84.5	84.5	84.8	85.0	85.3	86.1	86.4
7.4	5.3	42.0	54.3	62.3	71.1	77.3	81.3	84.5	85.0	86.1	86.6	86.9	87.2	88.0	88.0	88.8
7.6	5.3	42.0	54.3	62.3	71.1	77.3	83.2	86.9	88.2	89.3	90.4	90.6	90.9	91.7	91.7	92.5
7.8	5.3	42.0	54.3	62.3	71.1	77.5	83.7	87.7	89.3	90.9	92.2	92.5	93.0	93.9	94.1	97.1
8.0	5.3	42.0	54.3	62.3	71.1	77.5	83.7	87.7	89.3	90.9	92.2	92.5	93.0	94.4	94.7	100.0
8.2	5.3	42.0	54.3	62.3	71.1	77.5	83.7	87.7	89.3	90.9	92.2	92.5	93.0	94.4	94.7	100.0

TOTAL NUMBER OF OBSERVATIONS 374

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SEMBACH AB DL

64-67,76-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	5.9	13.0	14.0	15.2	16.1	16.9	17.7	17.9	17.9	17.9	17.9	17.9	17.9	18.7	18.7	18.7
≥ 2000	6.1	13.4	14.4	15.7	16.5	17.3	18.1	18.3	18.3	18.3	18.3	18.3	18.3	19.1	19.1	19.1
≥ 1800	6.1	13.4	14.4	15.7	16.5	17.3	18.1	18.3	18.3	18.3	18.3	18.3	18.3	19.1	19.1	19.1
≥ 1600	6.1	13.4	14.4	15.7	16.5	17.3	18.1	18.3	18.3	18.3	18.3	18.3	18.3	19.1	19.1	19.1
≥ 1400	6.1	13.4	14.4	15.7	16.7	17.5	18.3	18.5	18.5	18.5	18.5	18.5	18.5	19.3	19.3	19.3
≥ 1200	6.3	13.6	14.6	15.9	16.9	17.7	18.5	18.7	18.7	18.7	18.7	18.7	18.7	19.5	19.5	19.5
≥ 1000	6.3	13.6	14.8	16.1	17.1	17.9	18.7	18.9	18.9	18.9	18.9	18.9	18.9	19.7	19.7	19.7
≥ 900	6.3	13.6	14.8	16.1	17.1	17.9	18.7	18.9	18.9	18.9	18.9	18.9	18.9	19.7	19.7	19.7
≥ 800	6.9	14.2	15.4	16.7	17.7	18.5	19.3	19.5	19.5	19.5	19.5	19.5	19.5	20.3	20.3	20.3
≥ 700	7.5	15.7	16.9	18.1	19.1	19.9	20.7	20.9	20.9	20.9	20.9	20.9	20.9	21.7	21.7	21.7
≥ 600	7.7	18.1	19.3	20.7	22.6	23.4	24.6	24.8	24.8	24.8	24.8	24.8	24.8	25.6	25.6	25.6
≥ 500	8.5	19.3	20.5	22.0	24.2	25.2	26.4	26.6	26.6	26.6	26.6	26.6	26.6	27.6	27.6	27.6
≥ 450	9.3	20.7	22.0	23.8	26.2	27.2	28.5	28.7	28.7	28.7	28.7	28.7	28.7	29.7	29.7	29.7
≥ 400	10.4	22.6	24.0	26.0	28.5	30.1	31.7	31.9	32.1	32.1	32.1	32.1	32.1	33.1	33.1	33.1
≥ 350	11.6	25.4	27.2	29.5	32.3	34.1	36.0	36.6	36.8	36.8	36.8	36.8	36.8	37.8	37.8	37.8
≥ 300	12.2	26.8	28.9	31.3	34.6	36.6	38.4	39.0	39.4	39.4	39.4	39.4	39.4	40.4	40.4	40.4
≥ 250	12.8	30.1	32.3	34.8	38.6	41.3	43.3	43.9	44.3	44.3	44.3	44.3	44.3	45.3	45.3	45.3
≥ 200	14.6	35.0	37.6	40.7	44.9	47.6	49.6	50.2	50.6	50.6	50.6	50.6	50.6	51.8	51.8	51.8
≥ 180	14.6	36.4	39.2	42.5	47.0	49.8	51.8	52.4	52.8	52.8	52.8	52.8	52.8	53.0	54.1	54.1
≥ 150	15.4	38.8	41.9	45.5	50.2	53.7	55.9	56.7	57.1	57.1	57.1	57.1	57.1	58.3	58.3	58.3
≥ 120	16.3	42.5	48.0	52.0	57.5	62.0	64.8	66.3	66.7	66.9	66.9	67.1	68.1	68.1	68.1	68.1
≥ 100	16.9	44.5	50.4	55.3	60.8	65.7	69.3	70.7	71.1	71.3	71.3	71.3	71.3	72.6	72.6	72.6
≥ 90	17.3	45.1	51.4	57.1	62.8	67.9	71.5	73.0	73.4	73.6	73.6	73.6	73.8	74.8	74.8	74.8
≥ 80	17.7	45.7	52.4	58.9	65.0	70.1	73.8	75.2	75.6	75.8	75.8	75.8	76.0	77.0	77.0	77.0
≥ 70	17.7	45.9	53.7	60.8	67.1	72.6	76.6	78.0	78.5	78.7	78.7	78.7	78.9	79.9	79.9	79.9
≥ 60	17.9	46.1	54.5	61.6	68.5	74.2	78.5	80.7	81.1	81.5	81.5	81.5	82.1	83.1	83.1	83.1
≥ 50	17.9	46.1	55.1	62.8	70.1	75.8	81.1	83.3	83.7	84.1	84.1	84.1	85.0	86.0	86.0	86.2
≥ 40	17.9	46.1	55.3	63.0	70.7	76.6	82.5	85.2	86.0	86.4	86.4	86.4	87.4	88.4	88.4	88.6
≥ 30	17.9	46.1	55.3	63.0	70.7	77.0	84.3	87.6	88.6	89.6	89.8	90.2	91.1	92.7	92.7	93.1
≥ 20	17.9	46.1	55.3	63.0	70.7	77.0	84.6	88.4	90.2	91.7	91.9	92.3	93.1	94.7	95.1	97.0
≥ 10	17.9	46.1	55.3	63.0	70.7	77.0	84.6	88.4	90.2	91.7	92.1	92.5	93.3	95.7	96.3	100.0
≥ 0	17.9	46.1	55.3	63.0	70.7	77.0	84.6	88.4	90.2	91.7	92.1	92.5	93.3	95.7	96.3	100.0

TOTAL NUMBER OF OBSERVATIONS 992

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-67,76-81

DEC

PER CENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3620-0600

CEILING FEET	200	24	25	24	25	24	25	24	25	24	25	24	25	24	25	24	25
NO CEILING	6.6	12.4	13.9	14.3	15.8	16.1	16.9	17.9	18.3	18.5	18.5	18.5	18.5	18.9	18.9	19.8	
> 20000	7.2	13.1	14.9	15.3	17.1	17.3	18.1	19.1	19.5	19.8	19.8	19.8	19.8	20.2	20.2	21.0	
> 18000	7.2	13.1	14.9	15.3	17.1	17.3	18.1	19.1	19.5	19.8	19.8	19.8	19.9	20.3	20.3	21.1	
> 16000	7.2	13.1	14.9	15.3	17.1	17.3	18.1	19.1	19.5	19.8	19.8	19.8	19.9	20.3	20.3	21.1	
> 14000	7.2	13.1	14.9	15.3	17.1	17.3	18.1	19.1	19.5	19.8	19.8	19.8	19.9	20.3	20.3	21.1	
> 12000	7.3	13.3	15.3	15.4	17.2	17.5	18.3	19.2	19.6	19.9	19.9	19.9	20.0	20.4	20.4	21.2	
> 10000	7.6	13.5	15.3	15.7	17.5	17.7	18.5	19.5	19.9	20.2	20.2	20.2	20.3	20.7	20.7	21.5	
> 9000	7.8	13.8	15.8	16.2	18.0	18.4	19.2	20.2	20.6	20.8	20.8	20.8	21.1	21.4	21.4	22.2	
> 8000	8.9	15.4	17.6	18.0	19.8	20.2	21.1	22.3	22.7	23.0	23.1	23.1	23.3	23.7	23.7	24.5	
> 7000	9.5	16.4	18.7	19.1	21.2	21.9	22.9	24.1	24.5	24.8	24.9	24.9	25.0	25.4	25.4	26.3	
> 6000	9.7	17.3	19.9	20.4	23.1	23.8	24.8	26.1	26.5	26.8	26.9	26.9	27.1	27.5	27.5	28.3	
> 5000	10.0	18.0	20.6	21.1	24.2	25.0	26.0	27.3	27.7	28.0	28.1	28.1	28.3	28.7	28.7	29.5	
> 4500	12.0	20.2	23.4	24.0	27.2	28.1	29.2	30.7	31.1	31.4	31.5	31.5	31.7	32.1	32.1	32.9	
> 4000	13.1	21.5	25.0	25.7	29.2	30.3	31.7	33.6	34.1	34.4	34.5	34.5	34.6	35.0	35.0	35.9	
> 3500	13.9	23.4	27.3	28.4	32.2	33.4	34.9	36.8	37.3	37.6	37.8	37.8	37.9	38.4	38.4	39.2	
> 3000	14.7	25.4	29.4	30.4	35.0	36.5	38.3	40.3	40.9	41.1	41.3	41.3	41.4	41.9	41.9	42.8	
> 2500	16.9	29.6	34.1	35.7	41.3	42.9	44.8	46.8	47.4	47.8	47.9	47.9	48.0	48.6	48.6	49.4	
> 2000	18.5	32.5	37.6	39.2	44.9	46.7	48.6	50.6	51.2	51.6	51.7	51.7	52.0	52.5	52.5	53.3	
> 1800	19.2	33.7	39.0	41.0	46.7	48.4	50.5	52.5	53.0	53.5	53.6	53.6	53.9	54.4	54.4	55.2	
> 1500	20.6	36.1	41.8	44.0	50.1	51.8	54.0	56.2	56.8	57.4	57.5	57.5	57.8	58.3	58.3	59.1	
> 1200	22.7	40.6	47.8	50.2	56.4	59.3	62.2	64.7	65.5	66.2	66.3	66.3	66.6	67.1	67.1	67.9	
> 1000	23.3	42.1	49.7	52.5	59.1	62.1	65.6	68.2	69.0	69.7	69.8	69.8	70.1	70.6	70.6	71.4	
> 900	24.2	43.4	51.4	54.7	61.7	64.7	68.3	71.2	72.0	72.7	72.8	72.8	73.1	73.6	73.6	74.4	
> 800	24.9	44.2	52.8	56.6	64.5	67.9	71.7	74.7	75.8	76.5	76.6	76.6	76.9	77.4	77.4	78.2	
> 700	24.9	44.5	53.2	57.9	66.2	69.7	74.0	77.0	78.3	79.0	79.2	79.2	79.4	80.0	80.0	80.8	
> 600	25.2	44.8	53.9	58.9	67.7	71.3	75.9	79.0	80.6	81.7	81.9	81.9	82.3	83.1	83.2	84.0	
> 500	25.2	44.8	53.9	59.3	68.9	72.3	77.4	80.6	82.3	83.5	83.8	84.0	84.6	85.4	85.5	86.5	
> 400	25.3	45.1	54.1	59.5	69.1	73.2	79.6	83.1	85.3	86.9	87.1	87.8	88.4	89.3	89.4	90.4	
> 300	25.3	45.1	54.1	59.5	69.3	73.7	80.4	84.6	87.3	89.3	89.7	90.7	91.3	92.4	92.6	93.6	
> 200	25.3	45.1	54.1	59.5	69.3	73.7	80.5	84.8	87.8	90.0	90.5	91.7	92.6	94.5	95.1	97.4	
> 100	25.3	45.1	54.1	59.5	69.3	73.7	80.5	84.8	88.0	90.3	90.8	92.2	93.0	95.1	95.8	100.0	
> 0	25.3	45.1	54.1	59.5	69.3	73.7	80.5	84.8	88.0	90.3	90.8	92.2	93.0	95.1	95.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 739



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SENBACH AB DL

64-67,76-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
NO. CEILING	6.7	10.4	10.9	11.8	13.5	14.6	15.1	15.5	15.5	15.6	15.7	15.7	15.7	15.7	15.8	16.4												
≥ 27000	7.6	11.4	12.7	13.0	14.7	15.8	16.6	17.0	17.0	17.2	17.3	17.3	17.3	17.3	17.4	17.9												
≥ 8000	7.7	11.7	12.2	13.2	14.9	16.0	16.8	17.4	17.4	17.5	17.6	17.6	17.6	17.6	17.7	18.3												
≥ 6000	7.7	11.7	12.2	13.2	14.9	16.0	16.8	17.4	17.4	17.5	17.6	17.6	17.6	17.6	17.7	18.3												
≥ 14000	7.8	11.8	12.3	13.3	15.0	16.1	17.0	17.6	17.6	17.7	17.8	17.8	17.8	17.8	17.9	18.5												
≥ 12000	8.0	12.2	12.8	13.8	15.5	16.6	17.7	18.3	18.3	18.4	18.5	18.5	18.5	18.5	18.6	19.2												
≥ 10000	8.3	12.8	13.6	14.7	16.4	17.5	18.7	19.3	19.3	19.4	19.5	19.5	19.5	19.5	19.6	20.2												
≥ 9000	9.0	13.5	14.2	15.4	17.0	18.2	19.5	20.1	20.1	20.3	20.4	20.4	20.4	20.4	20.5	21.1												
≥ 8000	10.0	14.9	16.1	17.4	19.2	20.3	21.9	22.4	22.4	22.6	22.8	22.8	22.8	22.8	22.9	23.4												
≥ 7000	10.7	16.1	17.6	18.9	21.0	22.3	24.1	25.0	25.1	25.3	25.4	25.4	25.4	25.4	25.6	26.1												
≥ 6000	11.1	16.8	18.3	19.6	21.6	23.0	24.9	25.8	25.9	26.1	26.2	26.2	26.2	26.2	26.3	26.9												
≥ 5000	12.0	18.2	20.0	21.4	23.5	24.9	26.8	27.8	27.9	28.1	28.3	28.3	28.3	28.3	28.4	28.9												
≥ 4500	12.8	19.3	21.3	22.8	25.0	26.6	28.6	29.6	29.7	29.9	30.0	30.0	30.0	30.0	30.2	30.7												
≥ 4000	14.1	21.0	23.2	24.8	27.4	28.9	31.1	32.1	32.2	32.4	32.5	32.5	32.5	32.5	32.6	33.2												
≥ 3500	15.4	23.0	25.7	27.5	30.4	32.1	34.4	35.5	35.7	35.9	36.0	36.0	36.0	36.0	36.1	36.7												
≥ 3000	16.4	24.6	27.5	29.4	32.7	34.4	36.8	37.9	38.1	38.3	38.5	38.5	38.5	38.5	38.7	39.2												
≥ 2500	18.3	28.4	31.6	33.7	37.7	39.3	41.9	43.5	43.7	43.9	44.1	44.1	44.1	44.1	44.2	44.8												
≥ 2000	21.1	32.6	36.3	38.9	43.2	45.0	47.5	49.1	49.3	49.8	50.0	50.0	50.1	50.2	50.3	50.9												
≥ 1800	21.5	33.2	36.9	39.8	44.3	46.2	48.9	50.4	50.7	51.1	51.3	51.3	51.6	51.7	51.8	52.4												
≥ 1500	23.5	36.8	41.8	45.1	50.4	52.4	55.2	56.7	57.1	57.6	57.8	57.8	58.1	58.2	58.3	58.9												
≥ 1200	25.7	40.8	47.3	51.0	57.1	59.3	62.3	64.0	64.6	65.2	65.8	65.8	65.8	65.9	66.0	66.6												
≥ 1000	26.0	42.0	49.4	53.3	60.1	62.3	65.6	67.4	68.2	69.2	69.5	69.6	70.0	70.1	70.2	70.7												
≥ 900	26.5	43.0	50.4	54.8	62.8	65.0	68.4	70.4	71.2	72.3	72.6	72.8	73.2	73.3	73.4	74.0												
≥ 800	26.6	43.4	51.7	57.0	65.6	67.8	71.5	73.5	74.7	76.2	76.7	76.8	77.5	77.6	77.7	78.4												
≥ 700	26.7	43.8	52.6	58.0	67.4	69.8	73.7	75.8	77.0	78.8	79.6	80.0	80.8	80.9	81.1	81.7												
≥ 600	26.8	44.5	53.5	59.0	69.2	71.7	75.8	78.3	79.8	82.1	83.1	83.5	84.4	84.8	84.9	85.5												
≥ 500	26.8	44.6	53.6	59.3	69.7	72.5	77.0	79.6	81.2	84.1	85.2	85.7	86.5	87.2	87.3	88.3												
≥ 400	26.8	44.6	53.6	59.3	70.1	73.1	77.8	80.8	82.5	85.9	87.2	87.9	88.8	89.6	89.7	91.0												
≥ 300	26.8	44.6	53.6	59.3	70.2	73.4	78.4	82.0	84.3	88.0	89.9	90.9	92.0	92.8	92.9	95.0												
≥ 200	26.8	44.6	53.6	59.3	70.2	73.4	78.5	82.3	84.9	88.7	90.6	92.2	93.3	94.6	95.0	98.0												
≥ 100	26.8	44.6	53.6	59.3	70.2	73.4	78.5	82.3	84.9	88.7	90.6	92.2	93.3	94.7	95.1	100.0												
≥ 0	26.8	44.6	53.6	59.3	70.2	73.4	78.5	82.3	84.9	88.7	90.6	92.2	93.3	94.7	95.1	100.0												

TOTAL NUMBER OF OBSERVATIONS 892

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SEMBACH AB DL

64-67,76-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET	20	24	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
NO CEILING	9.7	12.3	13.1	14.1	15.0	15.4	15.5	15.7	15.7	15.7	15.8	15.8	15.8	15.9	16.0	16.2												
≥ 20000	12.2	15.3	16.1	17.3	18.6	19.0	19.2	19.4	19.4	19.4	19.5	19.5	19.5	19.6	19.7	19.9												
≥ 8000	12.2	15.3	16.1	17.3	18.6	19.0	19.2	19.5	19.5	19.5	19.6	19.6	19.6	19.7	19.7	19.8	19.9	20.1										
≥ 15000	12.2	15.4	16.2	17.4	18.7	19.1	19.4	19.6	19.6	19.6	19.7	19.7	19.7	19.8	19.9	20.1												
≥ 14000	12.2	15.4	16.2	17.4	18.7	19.1	19.4	19.6	19.6	19.6	19.7	19.7	19.7	19.8	19.9	20.1												
≥ 12000	12.4	15.8	16.6	17.8	19.0	19.7	19.9	20.1	20.1	20.1	20.2	20.2	20.2	20.4	20.5	20.7												
≥ 10000	12.7	16.2	17.2	18.5	19.8	20.6	20.9	21.1	21.1	21.1	21.3	21.3	21.3	21.4	21.5	21.7												
≥ 9000	13.3	16.8	17.8	19.0	20.4	21.1	21.5	21.8	21.8	21.9	22.1	22.1	22.1	22.3	22.4	22.6												
≥ 8000	14.0	18.3	19.4	20.7	22.1	22.9	23.4	23.8	23.8	23.9	24.2	24.2	24.2	24.3	24.4	24.6												
≥ 7500	14.4	18.9	19.9	21.4	22.9	23.7	24.2	24.6	24.6	24.7	24.9	24.9	24.9	25.1	25.2	25.4												
≥ 6000	15.4	20.6	21.7	23.2	24.8	25.6	26.1	26.5	26.5	26.6	26.8	26.8	26.8	27.0	27.1	27.3												
≥ 5500	15.7	21.1	22.6	24.0	26.0	26.7	27.2	27.6	27.6	27.7	28.0	28.0	28.0	28.1	28.2	28.4												
≥ 4500	16.1	21.6	23.2	24.6	26.7	27.5	28.0	28.4	28.4	28.5	28.7	28.7	28.7	28.9	29.0	29.2												
≥ 4000	18.0	23.9	25.5	27.5	29.9	30.6	31.1	31.5	31.5	31.7	31.9	31.9	31.9	32.0	32.1	32.3												
≥ 3500	18.7	26.1	28.1	30.2	32.6	33.6	34.2	34.8	35.0	35.2	35.6	35.6	35.6	35.7	35.8	36.0												
≥ 3000	20.0	28.5	30.8	33.0	35.7	36.7	37.5	38.3	38.5	38.8	39.1	39.1	39.1	39.3	39.4	39.6												
≥ 2500	22.3	32.3	34.8	37.2	40.4	41.4	42.5	43.8	44.2	44.6	45.0	45.0	45.0	45.1	45.2	45.4												
≥ 2000	25.7	38.1	40.9	43.6	47.2	48.3	49.4	51.0	51.3	51.8	52.1	52.2	52.2	52.3	52.5	52.7												
≥ 1800	26.3	39.5	42.4	45.3	49.0	50.1	51.2	52.8	53.1	53.6	53.9	54.0	54.0	54.1	54.3	54.5												
≥ 1500	28.3	43.6	47.2	50.9	54.8	55.9	57.5	59.2	59.5	60.1	60.4	60.5	60.5	60.6	60.7	61.0												
≥ 1200	30.2	47.9	53.1	57.8	62.0	63.2	65.0	66.7	67.1	67.8	68.1	68.2	68.2	68.3	68.5	68.7												
≥ 1000	30.6	49.4	55.7	60.6	65.5	67.2	69.4	71.3	72.0	72.9	73.3	73.4	73.4	73.5	73.6	73.8												
≥ 900	30.9	50.1	56.5	61.7	67.4	69.1	71.5	73.5	74.3	75.2	75.6	76.0	76.0	76.1	76.2	76.4												
≥ 800	31.1	50.6	57.5	63.4	69.9	71.6	74.2	76.8	78.0	78.9	79.3	79.6	79.6	79.9	80.0	80.4												
≥ 700	31.1	50.7	57.7	63.9	71.1	72.9	76.0	79.1	80.3	81.5	82.0	82.3	82.4	82.7	82.8	83.2												
≥ 600	31.1	51.0	58.1	64.4	72.4	74.5	78.0	81.4	82.9	84.6	85.3	85.8	86.0	86.4	86.5	86.9												
≥ 500	31.1	51.3	58.5	65.3	73.9	76.4	80.2	84.3	86.0	88.3	89.0	89.7	89.9	90.5	90.7	91.2												
≥ 400	31.1	51.3	58.5	65.3	74.2	76.7	80.6	85.0	86.8	89.5	90.3	91.1	91.4	92.3	92.5	93.3												
≥ 300	31.1	51.3	58.5	65.3	74.2	76.8	81.0	85.7	87.5	90.4	91.8	93.2	94.1	95.2	95.6	96.8												
≥ 200	31.1	51.3	58.5	65.3	74.2	76.8	81.0	85.8	87.6	90.7	92.3	93.8	94.9	96.5	97.3	99.3												
≥ 100	31.1	51.3	58.5	65.3	74.2	76.8	81.0	85.8	87.6	90.7	92.3	93.8	94.9	96.5	97.3	100.0												
≥ 50	31.1	51.3	58.5	65.3	74.2	76.8	81.0	85.8	87.6	90.7	92.3	93.8	94.9	96.5	97.3	100.0												

TOTAL NUMBER OF OBSERVATIONS 894

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120

SENBACH AB DL

67-67,76-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	11.2	13.8	14.8	16.0	16.8	17.0	17.2	17.4	17.4	17.5	17.5	17.5	17.5	17.5	17.5	17.5
≥ 20000	12.7	15.2	16.3	17.7	19.4	19.7	20.2	20.3	20.3	20.5	20.5	20.5	20.5	20.5	20.5	20.5
≥ 18000	13.0	15.6	16.7	18.0	19.7	20.0	20.5	20.6	20.6	20.8	20.8	20.8	20.8	20.8	20.8	20.8
≥ 16000	13.0	15.6	16.7	18.0	19.7	20.0	20.5	20.6	20.6	20.8	20.8	20.8	20.8	20.8	20.8	20.8
≥ 14000	13.0	15.6	16.8	18.1	19.8	20.2	20.6	20.7	20.8	21.1	21.1	21.1	21.1	21.1	21.1	21.1
≥ 12000	13.2	15.8	17.2	18.6	20.4	20.7	21.2	21.3	21.4	21.7	21.8	21.8	21.8	21.8	21.8	21.8
≥ 10000	14.2	16.8	18.4	19.7	22.2	22.5	23.0	23.1	23.2	23.5	23.6	23.6	23.6	23.6	23.6	23.6
≥ 9000	14.7	17.4	18.9	20.4	23.0	23.4	23.9	24.1	24.2	24.5	24.6	24.6	24.6	24.6	24.6	24.6
≥ 8000	15.1	18.4	20.2	21.7	24.3	24.7	25.3	25.5	25.6	26.0	26.1	26.1	26.1	26.1	26.1	26.1
≥ 7000	16.1	19.5	21.5	23.1	25.8	26.2	26.8	27.0	27.1	27.4	27.5	27.5	27.5	27.5	27.5	27.5
≥ 6000	17.1	21.1	23.4	25.1	27.8	28.2	28.8	29.0	29.1	29.5	29.6	29.6	29.6	29.6	29.6	29.6
≥ 5000	17.5	21.5	24.4	26.2	29.1	29.6	30.1	30.3	30.5	30.8	30.9	30.9	30.9	30.9	30.9	30.9
≥ 4500	18.3	22.5	25.5	27.3	30.3	30.8	31.4	31.6	31.7	32.0	32.1	32.1	32.1	32.1	32.1	32.1
≥ 4000	19.1	23.9	27.5	29.7	32.9	33.4	33.9	34.2	34.3	34.6	34.9	34.9	34.9	34.9	34.9	34.9
≥ 3500	21.3	26.8	30.5	32.6	35.8	36.3	37.0	37.3	37.5	38.1	38.2	38.2	38.2	38.2	38.2	38.2
≥ 3000	24.3	30.6	34.5	36.8	40.4	40.9	41.7	42.3	42.6	43.1	43.4	43.4	43.4	43.4	43.4	43.4
≥ 2500	27.2	35.2	39.3	42.4	46.8	47.4	48.2	48.9	49.2	49.7	50.1	50.1	50.1	50.1	50.1	50.1
≥ 2000	29.7	38.9	43.7	47.4	52.0	52.5	53.3	54.1	54.3	54.9	55.3	55.3	55.3	55.3	55.3	55.3
≥ 1800	30.2	39.9	44.8	48.5	53.3	53.9	54.6	55.4	55.7	56.2	56.7	56.7	56.7	56.7	56.7	56.7
≥ 1500	32.3	43.2	48.8	53.0	58.0	58.7	59.8	60.7	60.9	61.5	61.9	61.9	61.9	61.9	61.9	61.9
≥ 1200	34.0	47.3	54.1	59.0	64.9	66.0	67.3	68.3	68.6	69.2	69.7	69.7	69.7	69.7	69.7	69.7
≥ 1000	34.7	48.2	55.9	61.3	68.5	70.2	71.6	72.6	73.0	73.9	74.5	74.5	74.6	74.6	74.6	74.6
≥ 900	34.7	48.6	56.9	62.5	70.7	72.3	73.9	74.9	75.6	76.7	77.3	77.4	77.5	77.5	77.5	77.5
≥ 800	34.7	49.3	57.8	63.7	72.2	74.2	76.3	77.6	78.6	80.1	80.6	80.9	81.0	81.0	81.0	81.0
≥ 700	34.7	49.3	57.9	64.4	73.3	75.6	78.1	79.4	80.6	82.4	83.0	83.5	83.8	83.8	83.8	83.8
≥ 600	34.8	49.5	58.1	64.8	74.5	76.7	80.1	81.5	83.0	85.0	85.8	86.3	86.6	86.7	86.7	86.7
≥ 500	34.8	49.8	58.6	65.3	75.6	78.2	81.5	83.4	85.3	87.9	88.8	89.4	89.9	90.3	90.3	90.3
≥ 400	34.8	49.8	58.6	65.4	75.7	78.5	81.9	84.1	86.5	89.1	90.3	91.0	91.6	92.2	92.6	92.9
≥ 300	34.8	49.8	58.6	65.4	75.8	78.6	82.0	84.3	86.9	89.6	91.0	91.8	92.7	93.7	94.2	95.0
≥ 200	34.8	49.8	58.6	65.4	75.8	78.6	82.0	84.5	87.1	89.8	91.4	92.3	93.7	95.4	96.0	98.1
≥ 100	34.8	49.8	58.6	65.4	75.8	78.6	82.0	84.5	87.1	89.8	91.4	92.4	93.8	95.9	96.5	100.0
≥ 0	34.8	49.8	58.6	65.4	75.8	78.6	82.0	84.5	87.1	89.8	91.4	92.4	93.8	95.9	96.5	100.0

TOTAL NUMBER OF OBSERVATIONS 893

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-67,76-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1800-2000

CEILING FEET		VISIBILITY STATUTE MILES															
		≥ 10	≥ 6	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512	≥ 1/1024
NO CEILING		6.1	9.9	12.1	13.7	16.3	16.6	17.1	17.3	17.4	17.6	17.7	17.7	18.1	18.4	18.4	18.5
≥ 2000		7.9	11.8	14.1	15.8	19.0	19.3	19.9	20.1	20.3	20.5	20.8	20.8	21.2	21.5	21.5	21.6
≥ 1800		8.2	12.1	14.4	16.1	19.3	19.6	20.1	20.4	20.5	20.8	21.1	21.1	21.5	21.8	21.8	21.9
≥ 1600		8.2	12.1	14.4	16.1	19.3	19.6	20.1	20.4	20.5	20.8	21.1	21.1	21.5	21.8	21.8	21.9
≥ 1400		8.3	12.2	14.6	16.2	19.5	19.7	20.3	21.0	21.1	21.4	21.6	21.6	22.0	22.3	22.3	22.4
≥ 1200		8.3	12.2	14.7	16.5	19.7	20.0	20.5	21.2	21.4	21.6	21.9	21.9	22.3	22.6	22.6	22.7
≥ 1000		9.7	13.7	16.2	18.2	21.6	21.9	22.4	23.1	23.3	23.5	23.8	23.8	24.2	24.5	24.5	24.6
≥ 900		9.8	13.9	16.5	18.5	21.9	22.3	22.9	23.5	23.7	23.9	24.2	24.2	24.6	24.9	24.9	25.0
≥ 800		11.0	15.5	18.2	20.3	23.7	24.1	24.6	25.3	25.6	26.0	26.3	26.3	26.7	26.9	26.9	27.1
≥ 700		11.4	16.5	19.2	21.2	24.6	25.0	25.6	26.3	26.5	26.9	27.2	27.2	27.6	27.9	27.9	28.0
≥ 600		11.4	17.4	20.1	22.2	26.0	26.5	27.1	27.8	28.0	28.4	28.7	28.7	29.1	29.4	29.4	29.5
≥ 500		11.7	18.0	20.7	22.7	26.7	27.2	27.8	28.4	28.7	29.1	29.4	29.4	29.8	30.1	30.1	30.2
≥ 4500		12.1	19.0	22.0	24.2	28.3	29.0	29.5	30.2	30.5	30.9	31.2	31.2	31.6	31.8	31.8	32.0
≥ 400		12.9	21.4	24.9	27.8	31.8	32.5	33.2	33.9	34.1	34.6	34.8	34.8	35.2	35.5	35.5	35.6
≥ 3500		13.9	22.9	26.8	30.2	35.1	35.8	36.6	37.8	38.1	38.5	38.8	38.8	39.2	39.5	39.5	39.6
≥ 3000		16.1	26.0	30.2	33.9	39.3	40.0	41.2	42.4	42.7	43.1	43.4	43.4	43.8	44.1	44.1	44.2
≥ 2500		18.1	29.9	34.7	38.6	44.4	45.0	46.4	47.8	48.0	48.4	48.7	48.7	49.1	49.4	49.4	49.5
≥ 2000		19.0	33.2	38.5	43.5	49.9	50.7	52.1	53.5	53.9	54.3	54.6	54.6	55.0	55.2	55.2	55.4
≥ 1800		19.3	34.3	39.6	44.8	51.2	52.0	53.3	54.7	55.1	55.5	55.8	55.8	56.2	56.5	56.5	56.6
≥ 1500		20.4	37.3	43.1	49.4	56.6	57.6	59.3	60.8	61.2	61.9	62.2	62.3	62.7	63.0	63.0	63.1
≥ 1200		21.6	40.4	47.5	55.1	63.1	64.2	66.3	67.9	68.3	69.0	69.3	69.4	69.8	70.1	70.1	70.2
≥ 1000		21.9	41.1	49.3	57.4	66.0	67.8	70.3	72.0	72.4	73.1	73.6	73.7	74.1	74.4	74.4	74.6
≥ 900		21.9	41.1	49.5	58.4	67.2	69.7	72.7	74.3	74.8	75.5	76.1	76.2	76.6	76.9	76.9	77.0
≥ 800		21.9	41.9	50.7	59.6	69.0	71.4	74.6	76.3	77.0	77.7	78.4	78.5	78.9	79.2	79.2	79.3
≥ 700		21.9	42.2	51.0	60.0	69.8	72.7	76.5	78.2	79.0	80.1	80.8	81.0	81.6	81.9	81.9	82.0
≥ 600		22.0	42.3	51.2	60.3	70.5	74.0	78.0	79.7	80.8	82.0	82.7	82.9	83.7	83.9	83.9	84.1
≥ 500		22.2	42.6	51.6	61.2	72.7	76.3	80.7	82.9	84.2	85.4	86.1	86.3	87.2	87.6	87.6	87.8
≥ 400		22.2	42.6	51.6	61.4	72.9	76.6	81.2	83.8	85.3	87.1	87.8	87.9	89.0	89.5	89.5	89.7
≥ 300		22.2	42.6	51.6	61.4	72.9	76.9	82.0	84.9	86.5	88.7	89.5	89.7	91.2	92.2	92.4	92.8
≥ 200		22.2	42.6	51.6	61.4	72.9	76.9	82.3	85.4	87.1	90.5	91.8	92.1	93.6	95.2	95.5	96.7
≥ 100		22.2	42.6	51.6	61.4	72.9	76.9	82.3	85.4	87.1	90.5	92.0	92.2	94.0	95.9	96.3	100.0
≥ 0		22.2	42.6	51.6	61.4	72.9	76.9	82.3	85.4	87.1	90.5	92.0	92.2	94.0	95.9	96.3	100.0

TOTAL NUMBER OF OBSERVATIONS 735

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

17120 SEMBACH AB DL

64-67,76-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

2100-2300

CEILING FEET	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
NO. FEET 1-2000	4.4	9.7	11.2	13.0	15.1	15.1	16.1	16.9	16.9	16.9	17.2	17.2	17.6	17.9	17.9	18.2	
1-1800	6.1	11.5	13.3	14.8	17.1	17.1	18.1	19.0	19.0	19.4	19.7	19.7	20.0	20.4	20.5	20.9	
1-1600	6.1	11.5	13.3	14.8	17.1	17.1	18.1	19.0	19.0	19.4	19.7	19.7	20.0	20.4	20.5	20.9	
1-1400	6.1	11.5	13.3	14.8	17.1	17.1	18.1	19.4	19.4	19.7	20.0	20.0	20.4	20.7	20.9	21.2	
1-1200	6.2	11.7	13.1	15.1	17.4	17.4	18.4	19.7	19.7	20.0	20.4	20.4	20.7	21.0	21.2	21.5	
1-1000	7.6	13.0	14.8	16.7	19.0	19.0	20.0	21.3	21.3	21.7	22.0	22.0	22.3	22.7	23.0	23.2	23.5
1-800	7.7	13.3	15.1	17.1	19.4	19.4	20.4	21.7	21.7	22.0	22.3	22.3	22.7	23.0	23.2	23.5	
1-600	9.0	15.1	16.9	18.9	21.2	21.2	22.2	23.5	23.5	23.8	24.1	24.1	24.5	24.8	25.0	25.3	
1-400	9.9	16.7	18.7	20.9	23.2	23.2	24.1	25.5	25.5	25.9	26.4	26.4	26.8	27.1	27.3	27.6	
1-200	9.9	18.2	20.2	22.3	25.1	25.1	26.1	27.4	27.8	28.1	28.6	28.6	28.9	29.2	29.4	29.7	
1-100	10.2	19.0	21.0	23.2	25.9	25.9	26.9	28.2	28.6	29.1	29.6	29.6	29.9	30.2	30.4	30.7	
1-50	10.8	20.2	22.2	24.8	27.8	28.1	29.2	30.5	30.9	31.4	31.9	31.9	32.2	32.8	33.0	33.5	
1-0	10.8	21.8	24.1	27.1	30.0	30.4	31.7	33.0	33.3	33.8	34.3	34.3	34.6	35.3	35.5	36.0	
1-2500	12.2	24.1	26.8	30.5	33.8	34.2	35.5	37.1	37.4	37.9	38.4	38.4	38.8	39.4	39.6	40.1	
1-2000	14.0	28.4	31.2	35.0	39.2	39.7	41.1	42.7	43.0	43.5	44.0	44.0	44.3	45.0	45.2	45.6	
1-1500	15.1	31.2	34.5	38.6	43.0	43.5	45.3	47.0	47.5	47.9	48.4	48.4	48.8	49.4	49.6	50.1	
1-1000	16.1	34.3	38.3	42.7	47.6	48.4	50.4	52.2	52.9	53.4	53.9	53.9	54.2	54.8	55.0	55.5	
1-800	16.6	35.6	39.7	44.7	49.9	51.2	53.4	55.3	56.0	56.5	57.0	57.0	57.3	58.0	58.1	58.6	
1-600	17.2	37.1	41.9	47.5	53.2	54.7	57.1	59.1	59.8	60.3	60.8	60.8	61.1	61.7	61.9	62.4	
1-400	17.7	39.7	45.6	52.2	58.6	60.3	62.7	64.9	65.5	66.0	66.5	66.5	66.8	67.5	67.7	68.1	
1-200	17.9	40.4	47.0	55.0	61.6	63.4	66.0	68.3	69.0	69.5	70.0	70.0	70.3	70.9	71.1	71.6	
1-100	17.9	40.9	47.9	56.5	63.7	65.8	68.6	71.1	71.8	72.2	72.7	72.7	73.1	73.7	73.9	74.4	
1-50	18.2	41.5	49.1	57.8	65.8	68.3	71.8	74.4	75.0	75.7	76.4	76.4	76.7	77.3	77.5	78.0	
1-0	18.4	41.9	50.2	59.3	68.5	71.1	75.0	77.7	78.5	79.1	80.0	80.0	80.3	81.0	81.1	81.6	
1-2500	18.4	41.9	50.4	59.6	69.5	72.6	76.8	79.8	80.6	81.6	82.4	82.4	82.8	83.4	83.6	84.1	
1-2000	18.4	41.9	50.4	59.8	70.6	74.2	79.5	82.8	83.7	84.7	85.6	85.6	85.9	86.7	86.9	87.4	
1-1500	18.4	41.9	50.6	59.9	70.8	74.7	80.8	84.1	85.6	86.7	87.5	87.5	87.8	88.7	88.8	89.3	
1-1000	18.4	41.9	50.6	59.9	70.8	75.0	81.1	84.6	86.0	88.2	89.5	89.5	90.1	91.1	91.6	92.3	
1-800	18.4	41.9	50.6	59.9	70.8	75.0	81.1	84.6	86.4	89.2	91.0	91.5	92.8	94.1	94.7	96.9	
1-600	18.4	41.9	50.6	59.9	70.8	75.0	81.1	84.6	86.4	89.2	91.0	91.6	92.9	94.6	95.2	99.8	
1-400	18.4	41.9	50.6	59.9	70.8	75.0	81.1	84.6	86.4	89.2	91.0	91.6	92.9	94.6	95.2	100.0	

TOTAL NUMBER OF OBSERVATIONS 609

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 7120 SEMBACH AB DL

64-67,76-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

ALL

CEILING FEET	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
NO. 1-4	7.2	11.6	12.8	13.9	15.4	15.8	16.4	16.9	17.0	17.1	17.2	17.2	17.3	17.5	17.6	17.9	
2-2000	8.5	13.0	14.3	15.5	17.3	17.8	18.4	19.0	19.1	19.3	19.4	19.4	19.5	19.7	19.8	20.1	
2-8000	8.6	13.1	14.4	15.7	17.5	17.9	18.5	19.1	19.2	19.4	19.5	19.5	19.6	19.9	20.0	20.2	
2-1000	8.6	13.1	14.5	15.7	17.5	17.9	18.6	19.2	19.3	19.4	19.5	19.5	19.7	19.9	20.0	20.3	
2-4000	8.6	13.2	14.5	15.7	17.6	18.0	18.6	19.3	19.5	19.6	19.7	19.7	19.8	20.1	20.2	20.5	
2-1200	8.8	13.4	14.8	16.1	17.9	18.4	19.0	19.7	19.9	20.1	20.2	20.2	20.3	20.6	20.6	20.9	
2-1500	9.4	14.1	15.7	17.0	19.0	19.5	20.2	20.9	21.0	21.2	21.3	21.3	21.4	21.7	21.7	22.0	
2-1800	9.7	14.5	16.1	17.4	19.4	20.0	20.7	21.4	21.6	21.8	21.9	21.9	22.1	22.3	22.4	22.7	
2-2200	10.6	15.9	17.7	19.1	21.1	21.7	22.5	23.2	23.4	23.6	23.8	23.8	23.9	24.2	24.2	24.5	
2-2500	11.2	17.1	19.0	20.5	22.6	23.3	24.1	24.9	25.1	25.4	25.6	25.6	25.7	25.9	26.0	26.3	
2-3000	11.7	18.5	20.5	22.1	24.6	25.3	26.2	27.0	27.2	27.5	27.6	27.6	27.8	28.0	28.1	28.4	
2-3500	12.1	19.3	21.5	23.1	25.9	26.6	27.5	28.4	28.6	28.8	29.0	29.0	29.1	29.4	29.4	29.7	
2-4000	12.9	20.4	22.8	24.6	27.5	28.3	29.3	30.2	30.3	30.7	30.8	30.8	30.9	31.3	31.3	31.6	
2-4500	13.9	22.4	25.1	27.1	30.2	31.1	32.2	33.1	33.4	33.7	33.9	33.9	34.0	34.3	34.4	34.7	
2-5000	15.0	24.6	27.6	30.0	33.4	34.4	35.6	36.7	37.0	37.4	37.6	37.6	37.7	38.0	38.1	38.4	
2-5500	16.6	27.2	30.5	33.0	36.8	37.9	39.3	40.5	40.8	41.2	41.4	41.4	41.5	41.9	41.9	42.3	
2-6000	18.4	31.0	34.6	37.5	41.9	43.1	44.6	46.1	46.4	46.8	47.1	47.1	47.2	47.5	47.6	47.9	
2-6500	20.4	34.9	39.0	42.3	47.1	48.5	50.0	51.5	51.9	52.4	52.6	52.7	52.8	53.2	53.3	53.6	
2-7000	20.9	36.1	40.2	43.8	48.8	50.2	51.8	53.4	53.7	54.2	54.5	54.5	54.7	55.0	55.1	55.4	
2-7500	22.3	39.1	44.0	48.0	53.5	55.1	57.0	58.6	59.0	59.5	59.8	59.9	60.0	60.4	60.4	60.8	
2-8000	23.8	42.8	49.3	54.1	60.1	62.1	64.4	66.1	66.6	67.3	67.5	67.6	67.8	68.1	68.2	68.5	
2-8500	24.2	44.0	51.3	56.7	63.4	65.7	68.3	70.1	70.7	71.5	71.8	71.9	72.1	72.5	72.5	72.9	
2-9000	24.4	44.6	52.2	58.1	65.4	67.9	70.7	72.7	73.3	74.2	74.5	74.6	74.9	75.2	75.3	75.6	
2-9500	24.7	45.3	53.4	59.8	67.7	70.4	73.5	75.6	76.5	77.5	77.9	78.0	78.3	78.7	78.7	79.1	
2-10000	24.7	45.5	54.0	60.8	69.3	72.2	75.7	78.0	79.1	80.2	80.7	80.9	81.3	81.7	81.7	82.1	
2-10500	24.8	45.8	54.5	61.4	70.5	73.7	77.6	80.2	81.4	82.8	83.5	83.7	84.2	84.7	84.7	85.1	
2-11000	24.8	45.9	54.7	62.0	71.7	75.2	79.6	82.4	83.8	85.6	86.2	86.6	87.2	87.8	87.9	88.3	
2-11500	24.8	46.0	54.8	62.1	72.1	75.8	80.5	83.7	85.3	87.4	88.2	88.7	89.3	90.1	90.2	90.9	
2-12000	24.8	46.0	54.8	62.1	72.1	76.0	81.2	84.8	86.7	89.1	90.3	91.0	91.9	92.9	93.2	94.2	
2-12500	24.8	46.0	54.8	62.1	72.1	76.0	81.4	85.1	87.3	90.0	91.4	92.3	93.5	95.0	95.5	97.7	
2-13000	24.8	46.0	54.8	62.1	72.1	76.0	81.4	85.1	87.3	90.1	91.5	92.5	93.6	95.5	96.0	100.0	
2-13500	24.8	46.0	54.8	62.1	72.1	76.0	81.4	85.1	87.3	90.1	91.5	92.5	93.6	95.5	96.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 5628

USAF ETAC 0-14-5 OL A 0-14-5 OL A 0-14-5 OL A 0-14-5 OL A 0-14-5 OL A

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

17120 SEMBACH AB DL

64-68,76-81

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

ALL

	19.9	27.5	29.3	30.8	32.6	33.1	33.9	34.4	34.6	35.0	35.1	35.1	35.2	35.4	35.5	35.9
1-1000	22.6	30.4	32.4	33.9	35.9	36.5	37.3	37.9	38.1	38.4	38.6	38.6	38.7	38.9	39.0	39.5
2-1000	22.7	30.5	32.5	34.1	36.0	36.6	37.4	38.0	38.3	38.6	38.7	38.8	38.9	39.1	39.2	39.6
3-1000	22.7	30.6	32.5	34.1	36.1	36.7	37.5	38.1	38.3	38.6	38.8	38.8	38.9	39.1	39.2	39.7
4-1000	23.0	30.8	32.8	34.4	36.4	37.0	37.8	38.4	38.6	39.0	39.1	39.2	39.3	39.4	39.5	40.0
5-1000	23.5	31.5	33.6	35.2	37.2	37.8	38.6	39.2	39.5	39.8	39.9	40.0	40.1	40.3	40.4	40.8
6-1000	24.7	33.2	35.3	36.9	39.0	39.7	40.5	41.2	41.4	41.6	41.9	42.0	42.1	42.3	42.4	42.8
7-1000	25.7	34.7	36.9	38.6	40.7	41.4	42.3	42.9	43.2	43.6	43.7	43.8	43.9	44.1	44.2	44.7
8-1000	27.9	37.9	40.3	42.2	44.6	45.3	46.3	47.0	47.3	47.7	47.9	47.9	48.0	48.3	48.3	48.9
9-1000	29.4	40.3	42.9	45.0	47.5	48.3	49.3	50.1	50.4	50.8	51.0	51.0	51.2	51.4	51.5	52.0
1-500	30.5	42.4	45.2	47.4	50.0	50.9	52.0	52.8	53.1	53.5	53.7	53.7	53.9	54.1	54.2	54.7
2-500	32.0	44.4	47.3	49.6	52.5	53.3	54.5	55.3	55.7	56.1	56.3	56.4	56.5	56.7	56.8	57.3
3-500	33.4	46.2	49.3	51.8	54.7	55.7	56.9	57.8	58.1	58.6	58.8	58.9	59.0	59.2	59.3	59.9
4-500	35.3	48.9	52.2	54.8	58.0	59.0	60.3	61.2	61.6	62.1	62.3	62.4	62.5	62.7	62.8	63.4
5-500	37.2	51.5	55.0	57.8	61.2	62.3	63.7	64.7	65.1	65.6	65.8	65.9	66.0	66.3	66.4	66.9
6-500	39.2	54.2	58.0	61.1	64.8	65.9	67.4	68.4	68.9	69.4	69.6	69.7	69.8	70.1	70.2	70.7
7-500	40.7	56.7	60.8	64.0	68.1	69.2	70.9	72.0	72.4	73.0	73.2	73.3	73.4	73.7	73.8	74.3
8-500	42.2	59.1	63.6	67.2	71.6	72.9	74.7	75.8	76.3	76.9	77.1	77.2	77.3	77.6	77.7	78.3
9-500	42.5	59.8	64.3	68.1	72.6	74.0	75.8	77.0	77.5	78.0	78.3	78.4	78.5	78.8	78.9	79.5
1-300	43.5	61.6	66.6	70.6	75.6	77.0	79.0	80.3	80.8	81.4	81.7	81.8	82.0	82.2	82.3	82.9
2-300	44.2	63.3	68.7	73.3	78.8	80.3	82.6	84.1	84.6	85.3	85.6	85.7	85.9	86.2	86.3	86.8
3-300	44.5	63.9	69.7	74.5	80.4	82.1	84.6	86.1	86.7	87.4	87.7	87.8	88.0	88.3	88.4	89.0
4-300	44.6	64.2	70.1	75.1	81.3	83.0	85.6	87.2	87.9	88.6	88.9	89.1	89.2	89.5	89.6	90.2
5-300	44.7	64.5	70.6	75.9	82.3	84.2	86.9	88.6	89.3	90.1	90.4	90.6	90.7	91.0	91.2	91.7
6-300	44.8	64.7	70.9	76.3	83.1	85.0	87.9	89.7	90.5	91.4	91.7	91.9	92.1	92.4	92.5	93.1
7-300	44.8	64.7	71.1	76.6	83.6	85.7	88.7	90.7	91.5	92.5	92.9	93.1	93.3	93.6	93.7	94.3
8-300	44.8	64.8	71.2	76.8	84.0	86.2	89.4	91.6	92.6	93.7	94.1	94.3	94.5	94.9	95.0	95.6
9-300	44.9	64.8	71.2	76.8	84.2	86.4	89.9	92.2	93.3	94.6	95.1	95.3	95.6	96.0	96.2	96.9
1-100	44.9	64.8	71.2	76.8	84.2	86.5	90.1	92.6	93.7	95.2	95.8	96.1	96.5	97.0	97.2	98.0
2-100	44.9	64.8	71.2	76.8	84.2	86.5	90.1	92.7	93.9	95.5	96.2	96.6	97.0	97.7	98.0	99.2
3-100	44.9	64.8	71.2	76.8	84.2	86.5	90.1	92.7	93.9	95.5	96.2	96.6	97.1	97.9	98.2	99.9
4-100	44.9	64.8	71.2	76.8	84.2	86.5	90.1	92.7	93.9	95.5	96.2	96.6	97.1	97.9	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 70871

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

- a. Daily maximum temperatures
- b. Daily minimum temperatures
- c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:

- a. Extreme maximum temperature
- b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse



3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

3  
 FEDERAL CLIMATOLOGY BRANCH

FETAC

AIR WEATHER SERVICE/MAC

177 SEMBACH AB DL

STATION

STATION NAME

53-72, 76-81

YEARS

# DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
55						.6	2.6	.6	.1				.6
54					.3	2.4	8.5	3.5	.7				.3
53				.6	1.8	9.9	19.2	12.2	3.1				1.3
52				1.4	9.5	25.1	35.5	27.2	10.7	.7			4.9
51			.3	5.5	21.9	44.6	53.9	49.5	30.2	3.3	.1		9.4
50		.1	2.4	13.4	37.8	65.3	75.8	75.7	52.5	11.9	.3		17.8
49		1.3	8.0	27.8	60.3	86.5	94.3	95.5	78.3	32.3	1.8	.4	23.5
48	.3	4.2	19.6	47.4	82.5	96.8	99.9	100.0	94.5	55.9	9.6	1.3	41.3
47	3.1	13.0	39.2	70.1	95.5	99.6	100.0		99.5	82.2	24.4	8.1	51.9
46	12.9	28.0	61.8	88.0	99.3	100.0			100.0	95.4	49.4	22.1	62.1
45	27.5	47.8	80.5	98.9	100.0					99.5	72.4	38.9	72.2
44	54.5	69.6	91.5	99.9						100.0	90.5	65.3	81.1
43	77.5	85.9	98.5	100.0							99.2	84.9	89.6
42	89.2	95.4	99.6								100.0	94.6	95.7
41	96.3	97.8	100.0									98.7	98.3
40	99.1	99.4										99.7	99.4
39	100.0	99.9										100.0	99.9
38		100.0											100.0
37													100.0
36													
35													
34													
33													
32													
31													
30													
29													
28													
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13													
12													
11													
10													
9													
8													
7													
6													
5													
4													
3													
2													
1													
0													
MEAN	15.0	39.0	47.0	54.6	62.5	68.6	71.5	70.1	65.4	55.3	44.3	37.7	54.3
S.D.	8.41	9.142	8.736	8.620	8.376	8.177	8.427	7.290	7.245	7.189	7.387	8.143	15.143
TOTAL OBS.	703	667	739	715	730	717	757	773	746	762	717	743	8769

• ETAC

A LEATHER SERVICE/MAC

120 GEMBACH AB DL  
STATION STATION NAME

53-72, 76-81

YEARS

## DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

"INIMU"

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
1								.1					.1
2							.4						.4
3						.3	.8	.3	.1				.1
4						1.4	3.6	1.0	.3				.5
5					1.0	7.8	19.3	11.8	2.7	.3	.1		3.7
6			.1	.8	7.5	31.8	47.4	43.1	19.6	3.4	.4		13.2
7		.4	1.9	6.3	28.1	66.1	84.3	79.6	52.1	18.4	3.3		29.1
8	1.0	3.0	8.3	21.7	56.4	90.8	96.2	95.2	76.5	42.3	10.5	3.0	42.9
9	6.3	13.5	23.4	42.8	80.0	98.9	99.7	99.6	93.3	65.1	29.1	12.2	56.1
10	27.6	27.3	51.6	73.3	96.3	100.0	100.0	100.0	99.7	87.1	55.5	31.0	70.9
11	30.7	38.7	61.7	82.2	98.1				99.9	93.3	65.4	41.0	76.5
12	48.2	54.9	74.7	92.6	99.5				100.0	98.2	84.4	60.3	84.8
13	67.0	73.8	87.1	99.7	100.0					99.9	96.2	78.1	92.1
14	80.5	86.4	95.4	100.0						100.0	99.2	88.2	95.9
15	90.6	91.2	99.2								100.0	95.7	98.1
16	95.4	94.9	99.6									98.5	99.1
17	98.9	97.6	100.0									100.0	99.7
18	99.6	99.4											99.9
19	100.0	99.7											100.0
20		100.0											100.0
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
MEAN	27.3	29.1	34.0	38.8	45.4	51.7	54.5	53.3	49.1	42.7	35.8	30.5	41.0
S.D.	8.981	9.563	7.925	6.603	6.388	5.495	5.722	5.266	5.930	6.889	6.780	6.367	11.753
TOTAL OBS.	703	667	739	715	730	717	757	773	746	762	717	743	8769

USAFETAC FORM 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

3

GLOBAL CLIMATOLOGY BRANCH

USAFETAC

AIR WEATHER SERVICE/MAC

STATION 120 SEFBACH AB DL

STATION NAME

53-72, 76-81

YEARS

## DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MEAN

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
75						.4	1.2	.1					.1
70						1.7	5.2	1.4	.1				.7
65						7.1	18.0	10.1	2.0				3.3
60				.8	7.5	26.2	38.6	31.7	11.5	1.3	.1		10.1
55			.3	3.9	21.9	53.3	69.0	63.0	35.3	4.1			21.4
50		.4	2.4	13.8	46.6	83.4	94.1	93.4	68.8	21.8	1.4	.1	36.3
45	.1	3.1	11.6	35.9	74.4	97.5	100.0	99.7	92.4	49.1	9.5	1.9	48.8
40	4.0	11.2	33.2	59.9	93.7	99.9		100.0	99.5	77.7	27.1	10.0	60.5
35	15.1	27.7	59.4	86.0	99.6	100.0			100.0	95.3	53.1	26.5	72.6
30	38.1	52.6	81.1	98.6	100.0					99.5	80.6	50.2	83.9
25	63.4	73.3	90.1	100.0						100.0	95.1	75.2	91.7
20	79.7	87.7	97.7								99.3	88.7	96.2
15	90.5	94.0	99.7								100.0	96.2	98.4
10	96.2	96.7	99.9									98.8	99.3
5	99.3	98.8	100.0									99.9	99.8
0	100.0	99.7										100.0	100.0
-5		99.9											100.0
-10		100.0											100.0
MEAN	31.4	34.3	40.8	47.0	54.2	60.4	63.2	62.0	57.5	49.5	40.3	34.3	47.9
S.D.	8.274	8.986	7.713	6.798	6.581	6.114	6.374	5.446	5.672	6.145	6.643	7.968	13.064
TOTAL OBS	703	667	739	715	730	717	757	773	746	762	717	743	8769

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

12120 DMBACH AB DL 53-72, 76-81  
STATION STATION NAME YEARS

WHOLE DEGREES FAHRENHEIT

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
53							*	84	91	87	73	57	64
54	51	46	62	62	81	86	79	87	81	70	59	49	87
55	51	48	69	80	79	84	90	81	77	65	66	52	90
56	51	38	64	66	84	74	85	82	74	77	50	55	85
57	52	60	64	70	75	90	97	80	79	67	59	50	97
58	51	63	62	64	79	81	80	85	82	67	53	52	85
59	55	58	65	77	78	83	95	88	87	70	57	51	95
60	55	67	63	69	76	85	78	83	74	66	58	52	85
61	50	64	69	76	74	84	86	84	90	70	55	57	90
62	53	50	54	75	74	83	87	92	87	74	55	51	92
63	39	40	57	66	77	78	85	87	79	65	62	45	87
64	41	53	53	72	78	88	93	91	82	67	56	52	93
65	47	37	62	64	76	82	85	82	76	65	58	53	85
66	53	57	54	67	78	85	79	90	81	77	54	51	97
67	53	54	56	67	79	88	87	84	78	73	57	50	88
68	47	49	73	83	76	79	88	81*	74*	69*	70*	47	88
69	* 49*	46*	57*	74*	86*	79*	90*	83*	76*	66*	59*	36	* 90
70	* 46*	49*	52*	73*	74*	83*	81*	86*	76*	68*	61*	50	* 86
71	* 45*	45*	53*	76*	81*	76*	88*	90*	76*	72*	59*	54	* 97
72	* 49*	50*	65*	61*	72*	81*	85*	83*	74*	63*	61*	52	* 85
76		57	62	71	84	91	93	84	77*	73*	57*	50	
77	* 53*	55	68	66*	78*	89*	87	80*	78*	73*	62*	53	* 89
78	* 44*	55	60	68*	75	82*	86	82*	75*	73*	50*	53	* 86
79	* 41*	48	53	68	84	84	86*	84*	81*	75*	59*	57	86
80	* 46*	54	59*	70*	70	81*	82	86	77*	64*	57*	50	86
81	* 46*	48	66	72*	79	81*	86*	84*	73*	68*	59*	48	* 86
MEAN	49.8	52.6	61.7	70.1	78.4	83.9	86.6	85.0	80.9	69.7	57.1	52.3	89.2
S.D.	4.648	9.201	5.704	5.671	3.278	4.071	5.678	3.839	4.836	4.217	3.770	4.200	3.926
TOTAL OBS	703	667	739	715	730	717	757	773	746	762	717	743	8769

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA) (AT LEAST ONE DAY LESS THAN 24 OBS)

3

### MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

53-72, 76-81

YEARS

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
53						*	45	45	37	32	26	25	
54	3	0	24	29	34	43	41	44	34	30	23	24	
55	13	5	9	26	30	41	47	43	32	25	18	21	
56	-1	-6	22	23	33	38	49	40	40	30	15	18	-6
57	9	24	25	29	29	40	47	40	36	29	24	19	
58	15	17	9	23	36	43	45	45	45	32	30	17	
59	15	20	28	29	37	41	50	43	39	32	27	24	15
60	-2	13	26	29	29	42	42	47	38	33	30	18	-2
61	15	30	28	38	34	44	41	45	41	30	22	8	
62	13	13	16	30	28	35	43	42	35	28	24	5	
63	3	3	15	27	31	45	50	41	39	27	30	6	
64	7	18	16	30	37	41	41	39	36	27	29	12	
65	22	9	12	29	32	43	44	42	38	27	16	25	
66	3	26	24	29	36	43	45	38	37	27	21	23	
67	11	19	26	25	28	36	44	44	40	30	27	16	11
68	-3	17	23	26	32	42	46	43*	41*	30*	26*	13	-3
69	* 21*	8*	25*	27*	35*	42*	44*	44*	41*	33*	26*	15	*
70	* 19*	8*	15*	26*	35*	46*	42*	44*	37*	34*	28*	13	*
71	* 8*	21*	8*	30*	41*	42*	39*	44*	35*	28*	30*	23	*
72	* 8*	14*	26*	26*	37*	39*	46*	42*	35*	21*	24*	15	*
76		23	17	26	32	42	46	44	42*	32*	28*	10	
77	* 24*	23	23	28*	33*	42*	39	44*	42*	35*	21*	23	*
78	* 24*	8	28	28*	37	39*	48	39*	35*	33*	23*	15	*
79	* 5*	21	32	30	33	46	41*	41*	36*	34*	28*	27	*
80	* 12*	27	28*	32*	37	43*	43	41	43*	36*	25*	14	*
81	* 14*	18	30	28*	30	45*	48*	43*	37*	34*	23*	16	*
MEAN	8.2	14.4	22.0	28.1	32.4	41.6	44.8	42.8	38.4	29.3	24.1	17.4	5.4
S.D.	7.466	9.993	6.866	3.161	3.001	2.873	3.107	2.416	3.334	2.374	4.998	6.833	5.529
TOTAL OBS	703	667	739	715	730	717	757	773	746	762	717	743	8764

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA) (AT LEAST ONE DAY LESS THAN 24 OBS)

## PSYCHROMETRIC SUMMARY

JAN

**YEARS**

0600-0200

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

JAN  
MONTH

0300-3500

[illegible]



## PSYCHROMETRIC SUMMARY

MONTH

HOURS (L, S, T, )

[illegible]

**USAFETAC**  
FORM  
JA 6-6  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

[illegible][illegible]



## PSYCHROMETRIC SUMMARY

JAN  
MONTH

PAGE 1 0975-1100  
HOURS 10.5.71

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
2 / 51				.1														1	1																
5 / 44				.1														1	1																
7 / 47			.6	.1	.5													10	17																
4 / 45		1.7	.4	.1														18	18	11															
4 / 43		1.7	1.2	.1	.2													27	27	15	10														
10 / 41		2.5	1.1	.1	.1													31	31	26	9														
4 / 37	.5	4.8	1.1	.1														53	53	35	23														
7 / 37	1.	4.8	.2	.4														52	52	58	32														
7 / 35	1.2	6.6	1.6	.7														83	83	69	67														
3 / 33	3.2	7.4	4.3															121	121	122	80														
7 / 31	3.0	7.5	1.1															86	86	118	83														
7 / 27	1.0	6.6	.4															65	65	87	62														
7 / 27	3.6	5.5	.9	.1														74	74	69	106														
7 / 25	.6	3.2	.1															32	32	44	59														
7 / 23	.5	2.9	.2															30	30	26	71														
2 / 21	1.6	2.9																37	37	43	29														
7 / 19	1.3	1.1																19	19	32	34														
7 / 17	.4	1.7																17	17	15	29														
1 / 15	.5	1.3																15	15	21	40														
7 / 13	.2	1.0																10	10	10	12														
1 / 11	.6	.5																9	9	8	12														
7 / 9	1.3	.4																14	14	16	26														
7 / 7	.4	.2																5	5	3	7														
7 / 5	.2																	2	2	4	12														
7 / 3	.1	.1																2	2	1	3														
7 / 1																				1	7														
7 / -1	.1																	1	1	1															
- / -3	.1																	1	1	1	1														
- / -7																					1														
- / -9																					1														
TOTAL	10.56	65.0	12.7	2.5	.4													816	816	816															
																		816		816															

INVOICE/MAC

1200-1400  
HOURS L. S. T.

[illegible]

## PSYCHROMETRIC SUMMARY

[illegible]



## PSYCHROMETRIC SUMMARY

MONTH

HOURS (L, S, T.)

[illegible]

USAFETAC FORM 0-26-5 (OL A) JUL 64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

JAN  
MONTH

0000-0200  
HOURS (L. S. T.)

[illegible]

**USAFETAC** FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

100120 SEMRACH AB DL  
STATION STATION NAME

65-68,77-81

YEARS

JAN  
MONTH

PAGE 1 0300-0500  
HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb		Wet Bulb		Dew Point				
51		.2																1		1						
49																		4		4					1	
47		.4			.4													9		9					5	
45		1.3	.2		.4													13		13					5	
43		1.7	1.0															29		29					6	
41		5.4	.6															31		31					14	
39	.4	4.8	1.0	.2														36		36					29	
37	1.0	5.9	.6															46		46					31	
35	1.0	7.1	1.3	.2														56		56					61	
33	2.5	7.7	1.5															59		59					38	
31	1.7	10.3	.4															35		35					52	
29	.8	6.3	.2															37		38					47	
27	2.1	5.4		.2														16		16					41	
25	.6	2.7																14		14					28	
23	.2	2.7																20		20					21	
21	1.0	2.5	.6															15		16					17	
19	.4	2.7	.2															7		7					10	
17	.4	1.0																11		11					13	
15	.2	2.1																14		14					14	
13	.2	2.7																12		12					8	
11	.3	1.7																2		2					15	
9	.2	.2																1		1					16	
7	.2																	5		5					5	
5	1.0																	2		2					3	
3	.4																	2		2					5	
1	.4																	2		2					1	
-1																									2	
-3																										
TOTAL	15.9	74.9	7.7	1.5														478		479					478	
Element (X)	Σx'	Σx	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature							Total													
Rel. Hum.	3482809	40621	85.0	8.034	478	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F		93													
Dry Bulb	486104	14622	30.5	9.119	479		49.3						93													
Wet Bulb	445195	13973	29.2	8.775	478		56.4						93													
Dew Point	379053	12665	26.5	9.548	478	.6	64.4						93													

## PSYCHROMETRIC SUMMARY

JAN  
MONTH

PAGE 1 0600-2800  
HOURS (L. S. T.)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

177120 STATION SEMBACH AB DL STATION NAME 65-68,77-81 YEARS JAN MONTH  
PAGE 1 0900-1100 HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
2 / 81				.1														1	1			
5 / 47				.1														1	1			
4 / 47		.6	.1	.5														10	10			
4 / 45		1.7	.4	.1														18	18	11		
4 / 43		1.7	1.2	.1	.2													27	27	15	12	
2 / 41		2.5	1.1	.1	.1													31	31	26	9	
4 / 39	.5	4.8	1.1	.1														53	53	35	23	
3 / 37	1.3	4.8	.2	.4														52	52	58	32	
7 / 35	1.2	6.6	1.6	.7														83	83	69	63	
3 / 33	3.2	7.4	4.3															121	121	172	80	
2 / 31	2.2	7.5	1.1															86	86	118	53	
1 / 29	1.3	6.6	.4															65	65	87	62	
2 / 27	2.6	5.5	.9	.1														74	74	69	108	
1 / 25	.6	3.2	.1															32	32	44	59	
2 / 23	.5	2.9	.2															30	30	26	71	
2 / 21	1.6	2.9																37	37	43	29	
2 / 19	1.3	1.0																19	19	32	34	
1 / 17	.4	1.7																17	17	15	29	
1 / 15	.5	1.3																15	15	21	40	
1 / 13	.2	1.0																10	10	10	12	
1 / 11	.6	.5																9	9	8	12	
1 / 9	1.3	.4																14	14	16	26	
1 / 7	.4	.2																5	5	3	7	
1 / 5	.2																	2	2	4	12	
1 / 3	.1	.1																2	2	1	3	
1 / 1																				1	7	
1 / -1	.1																	1	1	1		
1 / -3	.1																	1	1	1	1	
1 / -7																					1	
1 / -9																					1	
TOTAL	19.56	55.0	12.7	2.5	.4													816	816	816	916	
																		816		816		
Element (X)	Σ X'		Σ X		X	Σ X		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.	5509583		68393		83.8	9.734		816		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total						
Dry Bulb	841311		25243		30.9	8.610		816		.2	47.8					93						
Wet Bulb	764102		24370		29.5	8.147		816		.2	57.0					93						
Dew Point	636630		21604		26.5	8.907		816		.3	68.0					93						

## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
47 / 53					.6													3	3															
2 / 51				.6														5	5															
5 / 47		.1	.5	.6														10	10															
4 / 47		.6	.1	.6														11	11	2														
4 / 45		1.5	1.6	.2	.2													29	29	26	4													
4 / 43	.1	2.9	1.2	.1														36	36	13	15													
2 / 41		3.5	2.1	.1														47	47	48	14													
4 / 39	.5	4.3	2.4	.7														65	65	40	31													
3 / 37	1.2	3.7	3.7	.1	.1													72	72	73	42													
1 / 35	.7	7.9	4.5	.9														115	115	59	62													
3 / 33	1.6	7.0	2.7	.2														94	94	131	75													
2 / 31	.9	6.5	2.1	.4														80	80	121	83													
1 / 29	.9	5.1	1.2	.1														60	60	66	89													
2 / 27	1.5	6.5	.4															68	68	68	99													
1 / 25	.2	2.1	.4															22	22	48	76													
2 / 23	.2	3.3																29	29	26	52													
2 / 21	.4	1.3																14	14	32	39													
1 / 19	.5	1.5	.1															17	17	11	25													
1 / 17	.1	.9																6	8	16	28													
1 / 15	.5	1.0																12	12	12	20													
1 / 13	.2	1.0																10	10	11	17													
1 / 11	.2	.7																8	8	12	10													
1 / 9	.4																	3	3	3	18													
1 / 7																					12													
1 / 5																					7													
TOTAL	1.16	1.42	3.0	4.8	.7													618	818	818	818													

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JAN 64

## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

**USAFETAC** FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

## PSYCHROMETRIC SUMMARY

1 7122  
STATION

SEMBACH AB DL

65-68,77-81

JAN

STATION NAME

YEARS

MONTH

PAGE 1

1600-2000

HOURS (L-S-T)

[illegible]

## PSYCHROMETRIC SUMMARY

65-68, 77-81

YEARS

JAN  
MONTH

PAGE 1      2100-2300  
HOURS: 10:00-11:00

[illegible]





## PSYCHROMETRIC SUMMARY

YEARS

FEB  
MON+

PAGE 1 0000-0200  
HOURS 11.5.71

[illegible]

FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

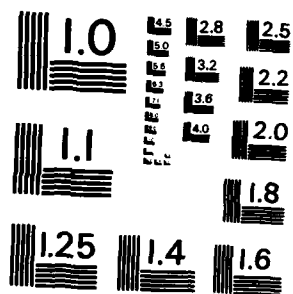
**USAFETAC**

UNCLASSIFIED

SENBACH AB GERMANY (WEST) REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBS. (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A. 28 JUL 82  
USAFETAC/D5-82-048 SBI-AD-ESBO 204 P/G 4/2

4/5

NL



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

## PSYCHROMETRIC SUMMARY

YEARS

FEB  
MONTH

HOURS (L, S, T)

**USAFETAC**  
FORM  
JUL 44  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

65-68, 76-81

YEARS

FEE  
MONTH

PAGE 1 0600-0800  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																													TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
2 / 51					.1													1	1														
5 / 49			1.0	.1														8	8														
8 / 47		.1	.6	.7														10	10	3													
4 / 45		2.5	1.8	1.0														38	38	10	4												
4 / 43	.3	5.1	1.2															48	48	30	5												
2 / 41	1.0	4.3	1.4															48	49	61	44												
4 / 39	.3	2.8	1.1	.1														31	31	43	36												
3 / 37	2.1	2.8	.8															41	41	50	51												
2 / 35	1.8	6.2	1.4	.1														69	69	45	50												
3 / 33	2.3	4.8	1.0															59	59	69	52												
2 / 31	2.1	7.6	1.9															84	84	89	61												
1 / 29	2.6	6.1	.8															69	69	67	79												
2 / 27	1.9	8.4	.8															81	81	71	64												
1 / 25	2.2	4.6	1.2															58	58	70	54												
2 / 23	1.2	3.3	.6															37	37	42	65												
2 / 21	.4	.8																9	9	32	49												
1 / 19	.6	2.3																21	21	15	23												
1 / 17	.1	.3																3	3	18	22												
1 / 15	.3																	2	2	2	9												
1 / 13	.3	.1																3	3	2	18												
1 / 11	.1	.1																2	2	2	14												
1 / 9	.3																	2	2	3	10												
- / 7																					3												
- / -1																					1												
TOTAL	19.9	62.3	15.6	2.1	.1													724	724	724	724												



## PSYCHROMETRIC SUMMARY

**YEARS**

FEB  
MONTH

PAGE 1      1200-1400  
HOURS (L. S. T.)

[illegible]

**USAFETAC** FORM 0-26-5 (OLA)  
RE 44  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE





## PSYCHROMETRIC SUMMARY

YEARS

FEB  
MONTH

PAGE 1 1800-2000  
HOURS 11:55-1:00

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
5 / 55						.1												1	1						
4 / 53				.1	.1													2	2						
3 / 51		.1	.4	1.1	.3	.1												15	15						
5 / 49		.3	.8	1.4		.3												20	20	1					
4 / 47		1.0	1.4	1.5	.1	.1												30	30	7	2				
4 / 45		3.6	1.4	1.3	.3													47	47	34	1				
4 / 43	.3	3.3	1.7	1.5	.1													50	50	49	18				
2 / 41	.1	5.6	1.5	.8														58	58	53	33				
4 / 39		3.8	2.2	.1	.1													45	45	53	62				
3 / 37	1.5	3.6	2.6	1.1	.1													65	65	64	61				
7 / 35	.8	6.7	3.6	1.1	.3													90	90	56	50				
3 / 33	1.7	4.2	4.6	.8														81	81	95	59				
2 / 31	.3	5.3	4.6	.6														77	77	75	63				
1 / 29		4.0	1.8	.1														43	43	90	50				
2 / 27	1.4	4.0	3.3	.1														64	64	54	95				
1 / 25	.3	1.0	.6	.1														14	14	52	56				
2 / 23		1.5	.3															13	13	15	43				
2 / 21		.6																4	4	18	35				
1 / 19																				3	25				
1 / 17																					31				
1 / 15																					5				
1 / 13																					3				
1 / 11																					1				
1 / 9																					3				
1 / 7																					3				
TOTAL	6.44	8.53	0.91	2.0	1.5	.7												719	719	719	719				

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
U.S. AIR

## PSYCHROMETRIC SUMMARY

FEB  
MONTH

PAGE 1 2170-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
4 / 53						.5												3	3																
2 / 51		.2			.2													2	2																
5 / 49		.2	1.5		.8													15	15	1															
4 / 47		.5	1.0	1.5														18	18	2	1														
4 / 45		2.0	1.2	.7														23	23	17	2														
4 / 43		5.1	1.2	1.0	.2													44	44	27	5														
2 / 41		6.6	1.2	1.4	.2													55	55	48	20														
4 / 39		4.9	2.0	.7														45	45	47	54														
3 / 37	.7	4.1	1.5															37	37	51	61														
2 / 35	1.5	6.6	2.4	.8	.3													69	69	58	33														
3 / 33	2.5	6.6	3.4	.2														75	75	68	50														
2 / 31	.2	4.7	3.0	.3														49	49	67	39														
2 / 29	.2	6.1	1.7	.2														48	48	57	56														
2 / 27	1.5	6.4	1.4															55	55	53	74														
2 / 25	.2	3.0	.2															20	20	39	47														
2 / 23	.2	1.9	.8															17	17	26	33														
2 / 21	.5	.8																8	8	14	37														
2 / 19	.2	.7																5	5	10	29														
1 / 17	.3	.2																3	3	6	19														
1 / 15	.2																	1	1	1	15														
1 / 13																					11														
1 / 11																					2														
1 / 9																					2														
1 / 7																					2														
TOTAL	2.1	60.5	22.5	7.8	.7	.5												592	592	592	592														

**USAFETAC** FORM 0.26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

FEB  
MONTH

ALL  
HOURS 11 A.M. - 5 P.M.

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 MAR MONTH 0000-0200

[illegible]

## PSYCHROMETRIC SUMMARY

1 7125  
STATION

SEMBACH AB DL

STATION NAME

65-68, 77-81

**YEARS**

MAR  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

MA 2  
MONT

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

MA 3  
MONTE

PAGE 1 0900-1100  
HOURS - 5:00 PM

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

1 7120 SEMBACH AB DL  
STATION

65-68,76-81

YEARS

MA-2  
MONTH

PAGE 1 1200-1400  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	Total	Total	
71										.1	.1							2	2			2		
69									.1	.1								2	2			2		
67				.2	.2			.1	.1									6	6			6		
65						.1	.1	.2	.1									5	5			5		
63			.1	.1	.1		.2											5	5		2			
61				.1	.2		.5	.1										9	9		1			
59			.5	.8		.6	.1											19	19		2		2	
57			.8	.9	.5	.6	.4											30	30		1		2	
55		.1	.4	1.1	.8	.8												29	29		10		1	
53		.6	.5	1.7	1.3	.2												41	41		17		3	
51		.8	1.9	1.5	2.2	.4	.2											65	65		30		12	
49		.5	2.3	2.8	1.4	.6	.1											72	72		43		10	
47	.3	1.9	1.8	3.4	1.3	.8	.3											92	92		71		17	
45	.2	3.4	5.4	4.4	2.4	.8												154	154		85		46	
43		1.3	3.2	4.6	1.4	.3												101	101		97		61	
41		2.3	3.0	2.7	1.4		.1											88	88		111		59	
39		1.7	3.2	1.8	.2	.3												68	68		100		72	
37		.9	2.5	1.2	.2	.1												45	45		120		95	
35		.5	2.5	.9	.4													40	40		78		86	
33		.3	1.4	.8	.1													24	24		62		85	
31		.4	.2	.4														10	10		32		67	
29		.4	.6	.2														12	12		32		73	
27		.5	.1															6	6		17		69	
25		.1	.1															2	2		13		55	
23		.3																3	3		4		47	
21																					2		19	
19																							13	
17																							7	
15																							6	
13																							4	
11																							2	
9																							1	
7																							3	
5																								
Element (X)	Σ X'	Σ X	X	°s	No. Obs.	Mean No. of Hours with Temperature							Total											
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F													
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

MA 3  
MONTH

1200-1400  
HOURS L. S. T.

[illegible]

**JSAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
NA 64

## PSYCHROMETRIC SUMMARY

MAR  
MONTH

[illegible]

## PSYCHROMETRIC SUMMARY

MAR  
MONTH[illegible]

**USAFETAC** FORM 0-26-5 (OL A) REVERSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 84

## PSYCHROMETRIC SUMMARY

MAR  
MONTH

PAGE 1 1870-2000  
HOURS 11. 5. 7.1

[illegible]

## PSYCHROMETRIC SUMMARY

MA  
MONTH

PAGE 1 2100-2300  
HOURS (L, S, T)

[illegible]

**USAFETAC** FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

65-68, 76-81

MA 2

STATION

STATION NAME

YEARS

PAGE 1

ALL  
HOURS S. T.

[illegible]

## PSYCHROMETRIC SUMMARY

MAR  
MONTH

ALL  
HOURS 11:30

[illegible]



## PSYCHROMETRIC SUMMARY

APR  
MONTH

0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point														
4/ 63					.2													1	1															
2/ 61					1.1													5	5															
1/ 59				.2	.7													4	4															
5/ 57				.9	.2													5	5															
5/ 55		.2	.2	.5														4	4	1														
4/ 53		.5	1.4	.9														12	12	9	1													
2/ 51		3.7	1.6	1.1	.2	.7												32	32	12	1													
5/ 49	.2	2.8	2.1	1.6	.7	.2												33	33	32	14													
4/ 47	.5	6.9	2.5	2.1	.5													54	54	26	28													
4/ 45	.2	4.8	2.5	2.8	.2													46	46	48	39													
4/ 43	.2	4.1	2.3	1.8	.2													38	38	44	37													
2/ 41		4.8	3.0	1.8	.2													43	43	43	26													
4/ 39	1.1	4.4	4.8	1.4														51	51	44	40													
3/ 37	1.1	2.8	1.8	.7														28	28	53	31													
1/ 35	.7	4.1	1.4	.9														31	31	43	40													
3/ 33	.9	2.5	1.8	.2														24	24	29	49													
2/ 31		2.1	1.6															16	16	23	37													
1/ 29		1.1	.5															7	7	16	29													
2/ 27		.2																1	1	10	27													
1/ 25																				2	7													
2/ 23																					13													
2/ 21																					4													
1/ 19																					2													
1/ 17																																		
TOTAL	5.145	127.617	0	4.4	.9													435	435	435	435													

## PSYCHROMETRIC SUMMARY

APR  
MONTH

0300-0500  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

APP  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

[illegible]

**USAFETAC** FORM 0-26-5 (OLA)  
SER. 44  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

1 7120 SEMBACH AB DL 65-68,76-81 APR  
STATION STATION NAME YEARS MONTH  
PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
76 / 75								.1	.1									2		2												
74 / 73								.1										1		1												
72 / 71							.2	.2										4		4												
70 / 69						.1	.2											3		3												
68 / 67							.1											1		1												
66 / 65						.2	.1	.1										4		4												
64 / 63				.2	.1	.9	1.0											20		20												
62 / 61				.1	.4	.6	.3	.1										14		14	1											
60 / 59			.2	.1	1.1	.6	.2	.1										21		21	7											
58 / 57			.2	1.0	1.5	.7	.2											32		32	7											
56 / 55		.3	.6	1.6	1.3	.8	.1											42		42	6											
54 / 53	.1	.3	2.7	1.6	2.0	.7	.2											68		68	25											
52 / 51	.3	1.5	2.2	1.5	2.5	.6	.2											78		78	43											
50 / 49		1.9	2.5	1.9	1.1	.2												68		68	75											
48 / 47	.2	3.4	1.6	2.5	.8	.2	.1											78		78	101											
46 / 45		2.8	2.5	3.7	1.8	.9												104		104	98											
44 / 43		3.1	2.5	2.6	1.0	.3												85		85	70											
42 / 41	.2	2.6	4.5	1.7	.8													87		87	85											
40 / 39	.2	3.6	3.5	1.7	.9													88		88	79											
38 / 37	.9	2.1	1.5	1.0														49		49	120											
36 / 35	.1	.9	1.5	.6														27		27	71											
34 / 33	.1	.6	.6															11		11	53											
32 / 31		.3	.1															4		4	33											
30 / 29		.2																2		2	9											
28 / 27																					1											
26 / 25																																
24 / 23																																
22 / 21																																
20 / 19																																
18 / 17																																
TOTAL	2.2	23.6	26.4	21.6	15.3	6.7	3.1	.8	.1									893		893	893											
																			893		893											
Element (X)	Σx'		Σx		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ											
Ref. Num.	4431277		61425		68.8		15.203		893		Σ 0 F		Σ 32 F		Σ 67 F		Σ 73 F		Σ 80 F		Σ 93 F											
Dry Bulb	2042935		42163		47.2		7.650		893				.6		1.1		.3				90											
Wet Bulb	1847646		37940		42.5		6.329		893				4.3								90											
Dew Point	1259937		32879		36.8		7.440		893				25.4								90											

USAFETAC FORM 0-26-3 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

1200-1400  
HOURS : S. T. I.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
/ 51										.1	.1							2	2															
/ 79									.1		.3							4	4															
7 / 77									.3	.1								4	4															
7 / 75									.1									1	1															
4 / 73									.2									2	2															
/ 71									.1	.1	.1							3	3															
/ 69									.8	.3	.1							11	11															
6 / 67					.1	.3	.2	.4	.2									12	12															
6 / 65				.1	.3	.2	1.1	.8	.2									25	25															
4 / 63				.2	.7	1.2	1.1	1.2	.4									44	44	4														
/ 61				.2	1.3	1.1	1.3	.3	.1									40	40	4														
/ 59				.8	1.5	1.5	1.1	.3	.1									47	47	9														
/ 57			.2	1.0	1.6	1.9	1.2	.3										55	55	13														
5 / 55			1.0	.8	1.7	2.7	.4	.2										61	61	24														
4 / 53	.1	.6	1.2	1.2	2.0	.8	.4	.2										59	59	58	5													
2 / 51	.3	.6	2.0	2.0	2.1	.8	.3	.1										74	74	73	21													
5 / 49		.6	1.3	2.8	1.0	1.2	.6	.1										76	76	73	19													
4 / 47		1.9	1.7	1.9	1.7	.8	.1											72	72	83	44													
4 / 45	.2	1.0	2.2	4.9	2.0	2.2	.1											114	114	116	73													
4 / 43		1.3	2.0	2.4	1.2	.6												67	67	81	60													
2 / 41	.1	1.8	1.7	2.5	1.1													64	64	86	75													
4 / 39	.1	2.2	1.8	.1														38	36	87	88													
3 / 37		.1	.2	.1														4	4	86	94													
/ 35		.4		.1														5	5	62	99													
3 / 33		.6																5	5	21	56													
2 / 31																				6	73													
/ 29																				1	42													
/ 27																					59													
/ 25																					24													
0 / 23																					17													
2 / 21																					17													
/ 19																					13													
/ 17																					7													
1 / 15																																		

**USAFETAC** FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

## PSYCHROMETRIC SUMMARY

APR  
MONTH

PAGE 2      1200-1400  
HOURS (L-S-T)

[illegible]

**USAFETAC** FORM 0-26-5 (OL A)  
RE 44  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

1500-1700

HOURS 11-5-7-1

[illegible]

**USAFETAC** FORM 0-28-5 (OLA)  
R&A  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE





## PSYCHROMETRIC SUMMARY

YEARS

APR \_\_\_\_\_  
MONTH

PAGE 2 1600-2000  
HOURS (C. S. T.)

[illegible]

**USAFETAC**  
FORM  
JUL 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

65-68, 76-81

APR  
MONTH

PAGE 1 2170-2300

**USAFETAC**  
FORM  
AA-44  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

APR  
MONTH

**ALL**  
HOURS (L. S. T.)

[illegible]

**USAFETAC**  
FORM  
JUL 64  
**0-26-5 (OLA)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

APR  
MONT

ALL

HOURS S. T.

[illegible]

**USAFETAC**  
FORM  
JAN 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

MAY  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

65-68, 77-81

MAY  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

1 7100 SEMBACH AB DL

65-68,76-81

MAY

PAGE 1 0600-0900  
HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point														
/ 71					.1													1												1				
/ 67			.1															1												1				
6 / 65			.1	.2														3												3		1		
4 / 63			.2	.1	1.1			.1										13												13		2		
/ 61		.2	.2	1.1	.4													16												16			3	
/ 59		.5	1.8	.7	.6	.2		.1										34												34		8	2	
/ 57		1.3	2.2	1.3	.6	.1	.2	.1										43												43		14	4	
5 / 55	.1	1.4	2.2	1.2	.7	.2		.1										50												50		40	17	
4 / 53	.7	4.5	2.2	1.8	.5	.4												79												79		50	22	
2 / 51	.8	3.5	4.2	1.9	1.1	.2												98												98		78	54	
5 / 49	1.0	5.3	4.5	2.3	.2													110												110		78	76	
/ 47	.7	7.0	3.3	.7	.1	.2												100												100		124	69	
4 / 45	1.0	6.3	3.4	1.3	.7													105												105		129	116	
4 / 43	.4	2.9	1.4	1.0														47												47		95	91	
2 / 41	.1	2.5	2.0	.7														45												45		55	95	
4 / 39	.5	2.4	1.6															37												37		45	60	
3 / 37	.8	1.1	.2															18												18		56	59	
/ 35	.2	1.6	.5															19												19		28	47	
3 / 33	.2	.4	.1															6												6		17	38	
2 / 31		.2	.1															3												3		5	30	
/ 29		.2																2												2		3	15	
/ 27																																		21
/ 25																																		8
2 / 23																																		3
TOTAL	0.6	40.6	30.4	14.1	6.1	1.4	.2	.5										830												830		830		830

Element (X)	Σx'	Σx	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	538.517	65955	79.5	12.971	830	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2037564	40762	49.1	6.563	830		.6	.2				93
Wet Bulb	1785550	38172	46.0	6.016	830		1.1					93
Dew Point	1553715	35437	42.7	7.009	830		8.6					93







GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION 1100 SEMBACH AB DL STATION NAME 65-68,76-81 YEARS MAY  
PAGE 1 1500-1700  
HOURS (L, S, T, D)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
63								.2		.1	.2							5		5					
51							.3	.2	.1	.3	.1	.1						11		11					
79								.1	.8		.2							10		10					
77							.3	.4	.6	1.3	.1							25		25					
75						.3	.3	1.7	1.9	.6	.2							44		44					
73							.4	1.0	1.3	.1	.1							27		27					
71					.1		.4	1.2	.6	.7								27		27					
69				.3	.2	1.1	.1	.7	.2	.8	.1							32		32	5				
67				.4	.2	.3	1.2	.3	1.0	.1								33		33	3				
65				.2	1.	1.2	.8	.8	.9	.3								46		46	12				
63				1.3	3.5	4.9	.7	1.4	1.3	.1								120		120	24				
61			.1	.8	2.2	1.9	2.0	1.4	.1									77		77	42				
59			.9	1.4	2.1	2.0	2.0	.3										79		79	48				
57		.3	.4	2.5	2.2	2.3	.2	.6										78		78	69				
55		.3	.9	2.1	1.7	.4	.6	.3										57		57	90				
53		.6	.9	3.3	1.3	.7	.2											63		63	96				
51	.1	1.6	1.8	1.1	1.3	.3	.1											57		57	115				
49	.2	1.4	1.7	.6	.3	.8	.1											46		46	129				
47		.8	.3	.3	.7	.6	.2											26		26	121				
45	.1		1.8	1.2		.3												31		31	51				
43			.8															7		7	34				
41		.1																1		1	30				
39																					24				
37																					8				
35																					1				
33																									
31																									
29																									
27																									
25																									
23																									
21																									
19																									
																						TOTAL		TOTAL	
Element (X)	Σ X <sup>2</sup>		Σ X		X		X <sup>2</sup>		No. Obs.		Mean No. of Hours with Temperature						Total								
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F									
Dry Bulb																									
Wet Bulb																									
Dew Point																									

## PSYCHROMETRIC SUMMARY

**YEARS**

MAY  
MONTH

PAGE 2 1500-1700  
HOURS (U.S.T.)

[illegible]

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JAN 44



## PSYCHROMETRIC SUMMARY

65-68,76-81

YEARS

MAY  
MONT

PAGE 1 2126-2320  
HOURS 11.5.71

## PSYCHROMETRIC SUMMARY

YEARS

**MONTH**

PAGE 1

ALL

HOURS: 8.30. 9.15.

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 2

ALL  
HOURS S. Y.

[illegible]

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 0000-0200  
HOURS 11:55:11

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
71				.4	.2		.4											5	5																
69				.6	.2													4	4																
67			.9	.2														5	5	1															
65		.4	.9	.6	.6													12	12	2	1														
63	.2	3.4	1.9	1.1	.2													32	32	13	3														
61		1.9	3.4	1.1	.2	.2												32	32	24	18														
59		3.6	5.5	2.1														53	53	23	20														
57		5.1	6.2	1.7														61	61	53	19														
55	.6	5.5	4.9	1.7	.2													61	61	61	38														
53	.2	6.8	3.8	.6	.2													55	55	77	68														
51	.6	7.2	5.8	.6														67	67	54	79														
49	.2	2.6	4.7	.6														38	38	58	67														
47	1.1	3.8	.2	.2														25	25	52	42														
45	.2	2.8																14	14	37	54														
43	.2	.6																4	4	10	37														
41																				3	10														
39	.2																	1	1	1	11														
37																					2														
TAL	3.64	3.93	8.21	1.5	2.1	.2	.4											469	469	469	469														

**USAFETAC** FORM 0-26-5 (OLA)  
SEP 44  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

1 7127 SOMBACH AB DL

65-68, 77-81

WU  
MONT

PAGE 1

0300-0500  
HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
67				.2	.2													2	2																
66		.5		.2	.5													7	7																
65		1.2	.9															17	17	3	1														
64	.7	3.5	2.3	.2	.3													40	40	18	12														
63	.2	3.1	2.1	.2														32	32	24	15														
62	.5	6.5	2.8	.5														59	59	40	27														
61	.7	6.6	3.5	.7	.3													68	68	52	46														
60	1.4	9.6	3.5	.9														88	88	31	57														
59	1.2	7.5	3.7	.7	.5													78	78	92	66														
58	.5	6.5	3.1	1.2														64	64	65	79														
57	1.9	6.5	.9															53	53	79	60														
56	.9	6.5	.7	.2	.2													48	48	70	91														
55		1.2	.2	.2														9	9	24	43														
54		.5																3	3	10	20														
53		.3																2	2	2	15														
52	.3																	2	2	5	8														
51	.2																	1	1	2	6														
50																					1														
49																					1														
48																					1														
47																					1														
46																					1														
45																					1														
44																					1														
43																					1														
42																					1														
41																					1														
40																					1														
39																					1														
38																					1														
37																					1														
36																					1														
35																					1														
34																																			

## PSYCHROMETRIC SUMMARY

65-68, 76-81

JUN  
MONTH

STATION

STATION NAME

YEARS

PAGE 1

0600-3800

HOURS S. T.

[illegible]

**USAFETAC** FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
15 JUL 64

## PSYCHROMETRIC SUMMARY

YEARS

JUN  
MON 11

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
8 / 95										.1		.1						2	2																
4 / 93							.1			.1								2	2																
7 / 91							.1	.2	.2	.3	.1							9	9																
7 / 79					.1		.1	.4	.3	.3								12	12																
7 / 77					.1	.6	.8	.3	.2									18	18																
6 / 75					.3	.3	1.1	.8	.2									25	25																
4 / 73				.4	.6	1.0	1.7	.4		.1								38	38																
7 / 71				.2	1.7	1.5	.7		.1									37	37	3															
7 / 69			.2	.8	2.6	1.8	1.0											57	57	2															
6 / 67			.3	1.2	2.1	1.8	.3	.1										53	53	16	1														
6 / 65		.2	1.7	2.0	3.1	.6	.4											66	66	78	3														
4 / 63		.6	2.7	4.5	3.7	1.7	.2	.1										120	120	64	45														
7 / 61		1.2	1.6	3.0	2.0	.9	.3											81	81	96	28														
7 / 59	.1	1.7	2.2	2.7	1.6	.7												60	60	101	52														
7 / 57	.3	1.7	2.2	2.6	1.2	.3												75	75	121	94														
5 / 55		1.6	3.1	2.7	.9	.2												76	76	103	60														
4 / 53	.3	1.1	2.6	2.6	.4													63	63	91	118														
7 / 51	.1	.9	2.8	.2	.2													38	38	86	100														
5 / 49	.1	1.3	1.2	.1														25	25	83	96														
7 / 47		1.2	.2	.3														16	16	65	89														
4 / 45		.1																1	1	19	110														
4 / 43																				6	55														
7 / 41																					29														
4 / 39																					10														
3 / 37																					10														
7 / 35																					4														
TOTAL	1.0	11.6	20.2	23.4	20.7	11.3	6.7	2.5	1.1	1.0	.1	.1						894	894	894	894														



## PSYCHROMETRIC SUMMARY

YEARS

JUL  
 MONTH

1 7120      SENBACH AB DL  
STATION

## PSYCHROMETRIC SUMMARY

JUN  
MONTH

PAGE 1 1800-2700  
HOURS (L. S. T.)

[illegible]





## PSYCHROMETRIC SUMMARY

55-68, 76-81

MONTH

PAGE 1

ALL  
HOURS S. Y.

[illegible]

**USAFETAC** FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

JUN  
MONTH

**ALL**  
HOURS S. T.

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

JUL  
MON 11

PAGE 1 2000-0200  
HOURS: 6:00

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

**JUL**  
**MONT**

0300-0500  
HOURS - S. T.

[illegible]

**USAFETAC** FORM 0.26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

JUL  
MONT

PAGE 1 0600-0800  
HOURS L. S. T.

[illegible]

## PSYCHROMETRIC SUMMARY

64-68, 76-81

YEARS

JUL  
MONTH

PAGE 1

0906-1100  
HOURS (L.S.T.)

[illegible]

**USAFETAC** FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

## PSYCHROMETRIC SUMMARY

JUL  
MONT

PAGE 1 1200-1400  
HOURS (L. S. T.)

[illegible]

**USAFETAC** FORM 0-26-5 (OL A)  
MAY 64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

     JUL       
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
4 / 92											.1	.1	.1		.1			4	4															
4 / 91										.1			.1	.4				6	6															
4 / 89												.5	.3	.5				13	13															
6 / 37									.2	.4	.2	.5	.1	.2				16	16															
6 / 85								.2	.3	.6	.9	.3	.5					28	28															
4 / 83						.2	.1		1.0	1.2	.2							27	27															
4 / 81					.2	.1	.6	1.2	1.8	1.2	.6	.1	.1					59	59															
4 / 79				.2	.2	.3	.5	1.5	.3	.4	.2							36	36															
7 / 77				.3	.8	1.2	1.7	.7	.5	.4								58	58															
6 / 75	.1			.2	1.2	1.4	2.5	1.2	.3									69	69															
4 / 73			.1	.3	1.2	2.2	1.5	.4	.3									60	60	13	1													
4 / 71		.3	.3	.5	1.2	1.8	1.7											58	58	11	1													
4 / 69	.2	.4	.8	2.1	1.6	2.3	.9											83	83	22	7													
6 / 67		.1	.2	1.3	1.1	2.0	.3	.3										53	53	68	4													
6 / 65	.3	.3	1.3	1.9	2.2	1.5	.2	.2										79	79	170	11													
4 / 63	1.1	1.3	1.4	4.0	2.7	.7	.1											112	112	85	23													
4 / 61	.1	.6	1.2	1.5	2.2	1.3	.2											71	71	139	46													
4 / 59	1.4	2.2	1.3	1.3	1.0													72	72	116	81													
4 / 57	.2	1.4	1.0	.7	.3	.5												41	41	122	81													
5 / 55	.2	1.0	.8	.5	.4													29	29	144	107													
4 / 53	.5		.1															6	6	91	114													
2 / 51		.3	.1															4	4	43	116													
5 / 49																				22	115													
4 / 47																				8	101													
4 / 45																					94													
4 / 43																					37													
2 / 41																					28													
4 / 39																					9													
3 / 37																					2													
2 / 35																					5													
3 / 33																					1													
T. TAL	.5	6.7	8.0	8.6	15.3	15.7	14.7	12.0	6.7	5.1	2.6	1.5	1.2	1.1	.1			984	984	984														

**USAFETAC** FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

17120 SEMBACH AB DL 64-68,76-81 JUL  
STATION STATION NAME YEARS  
PAGE 1 1800-2000  
HOURS 15.7

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
4 / 92											.1							1	1					
4 / 91															.1			1	1					
7 / 89									.1			.1	.3					5	5					
8 / 87												.3	.2					5	5					
6 / 85								.1	.1	.1	.6	.5	.3					15	15					
4 / 83							.2	.5	.1	.2	.5	.1						14	14					
7 / 81							.5	.7	1.4	.9	.3	.1						34	34					
7 / 79				.1	.2		.8	1.2	.7	.6	.2							34	34					
7 / 77				.1	.2	.3	1.8	.8	.6	.3		.1						38	38					
6 / 75					.3	1.0	1.8	1.8	.7		.1							51	51					
4 / 73				.7	.3	.9	2.1	.9	.1	.1								46	46	4				
7 / 71			.5	.1	.5	.9	1.7	1.2	.2									45	45	7	1			
7 / 69		.1	.5	.5	1.5	2.8	1.4	.2										61	61	14	1			
4 / 67		.2	.8	.5	1.7	2.0	1.5	.3	.2									64	64	43	4			
6 / 65	.2	.3	1.8	1.5	2.6	1.6	.8											78	78	76	12			
4 / 63		1.5	1.1	3.0	4.7	2.9	.6	.1										117	117	80	30			
2 / 61		.8	1.1	1.9	2.6	.8	.2	.1										67	67	117	41			
7 / 59		1.6	1.9	2.3	1.4	.7	.2											71	71	133	57			
7 / 57	.1	1.5	2.1	1.8	1.1	.2												61	61	111	81			
5 / 55	.7	1.1	1.5	1.8	.3	.2												50	50	124	78			
4 / 53	.5	.2	.3	.5	.1													14	14	92	118			
2 / 51	.3	.6	.3	.1														12	12	57	131			
5 / 49			.2															2	2	41	103			
4 / 47																				13	63			
4 / 45																				2	75			
4 / 43																					32			
2 / 41																					15			
4 / 39																					13			
3 / 37																					6			
2 / 35																					4			
3 / 33																					1			
TOTAL	1.8	7.9	12.2	14.8	16.8	14.4	13.5	8.0	4.2	2.3	1.8	1.2	.9	.1				886	886	886				
																					886	886		
Element (X)	Σ x'		Σ x		x		s <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature						Total							
Ref. Num.	3600497		54507		61.5		16.713		886		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93							
Dry Bulb	4069721		59571		67.2		8.531		886				43.5	25.6	9.8	.1	93							
Wet Bulb	3780533		52029		58.7		5.337		886				7.1	.4			93							
Dew Point	2472669		46505		52.5		5.983		886				.6				93							

<u>1-120</u>	<u>SEMBACH AB DL</u>
STATION	STATION NAME

## PSYCHROMETRIC SUMMARY

64-68, 76-81

JUL  
MONTH

PAGE 1 2100-2300  
HOURS D. S. T. I.

[illegible]

## PSYCHROMETRIC SUMMARY

444

YEARS

ALL

HOURS 12.5. S. 2.

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

JUL  
MONTH

ALL  
HOURS

[illegible]

## PSYCHROMETRIC SUMMARY

64-68, 78

AUG

PAGE 1 0000-0200  
HOURS (M, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point													
8 / 75					.4													2	2															
4 / 73				.2				.2										2	2															
7 / 71								.4										2	2															
7 / 69		.2	.2	.2	.4													5	5															
7 / 67		.4	.8	.6	.6													12	12	4														
6 / 65		1.3	.6	1.5	.4													18	18	4	3													
4 / 63		1.5	1.3	1.3														19	19	11	6													
2 / 61	.8	4.8	1.3	1.5	1.3													46	46	23	17													
7 / 59	.8	7.3	3.6	1.3														62	62	51	26													
7 / 57	2.1	6.3	2.5	1.3														57	57	65	58													
5 / 55	1.7	6.9	2.9	1.3														60	60	69	48													
4 / 53	1.7	7.5	2.1	1.7														62	62	60	78													
2 / 51	2.3	6.5	4.4	.4														65	65	59	58													
5 / 49	.6	4.6	.4	.2														28	28	55	50													
7 / 47	.6	4.8																26	26	44	55													
4 / 45	.4	.6	.2															6	6	25	41													
4 / 43		.4																2	2	1	27													
2 / 41	.2	.6																4	4	4	3													
4 / 39																				3	6													
3 / 37																					2													
TOTAL	11.35	3.82	3.31	0.9	3.1			.6										478	478	478	476													

## PSYCHROMETRIC SUMMARY

YEARS

AUG  
MONTH

PAGE 1 0300-0500  
HOURS S. T.

[illegible]

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

AUG  
MONTE

STATION

STATION NAME

YEARS

PAGE 1 0600-0800  
HOURS (EST)

[illegible]

**USAFETAC** FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
AS AM

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION 1717 SOMBACH AB DL  
STATION NAME

64-68,76-81

YEARS

AUG  
MONTH

PAGE 1 1900-1100  
HOURS U.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
4 / 83									.1	.1								2	2																
4 / 81							.2	.2	.1									5	5																
4 / 79							.1	.3	.1	.1								6	6																
7 / 77					.3	.4	.1	.3	.3	.1								15	15																
6 / 75					.5	.7	.4	.2										18	18																
4 / 73				.3	1.3	.5	1.0	.3	.1									35	35																
4 / 71			.2	.6	1.0	1.0	1.1	.2										41	41		1														
4 / 69			.7	.9	1.9	2.4	.7	.1	.1									68	68		5														
5 / 67			1.1	1.1	1.8	1.1	.2	.2										55	55		20														
6 / 65	.1	.6	1.7	3.2	2.7	1.7	.4	.2										99	99		43														
4 / 63	.6	1.6	3.1	5.4	5.1	2.0		.1										178	178		77														
4 / 61	.1	2.7	2.8	3.1	2.5	.4	.3											119	119		56														
4 / 59	.1	2.8	4.0	3.0	.9	.6												114	114		76														
4 / 57	.1	2.6	4.1	3.4	.7	.5												114	114		106														
5 / 55	.3	2.9	1.5	2.1	.6													74	74		120														
4 / 53		1.9	1.0	1.1	.1													41	41		139														
2 / 51		.8	.8	.2														18	18		140														
4 / 49	.1		.1															2	2		56														
4 / 47		.1																1	1		22														
4 / 45																					3														
4 / 43																																			
2 / 41																																			
4 / 39																																			
4 / 35																																			
TOTAL	1.4	15.9	20.9	24.3	18.6	11.2	4.5	2.1	.8	.3								1005	1005		1005														

Element (X)	Z <sub>X</sub> <sup>1</sup>	Z <sub>X</sub>	X	σ <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5261494	71390	71.0	13.768	1005	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	4025861	63303	63.0	6.195	1005			22.7	7.5	1.0		93
Wet Bulb	3319606	57566	57.3	4.707	1005			2.4				93
Dew Point	2849215	53231	53.0	5.446	1005			.1				93



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

1 1100 STATION NAME SEMBACH AB DL 64-68,76-81 YEARS AUG MONTH  
PAGE 1 1200-1400 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	Total	Total	
1 / 89													.1					1				1		
6 / 87										.2	.1	.1						4				4		
6 / 85										.1	.1	.1	.1					4				4		
7 / 83							.1	.2	.5	.1	.2	.2						13				13		
7 / 81							.4	.5	1.2	.5	.1							27				27		
7 / 79						.7	.4	.9	.7	.1	.2	.1	.1					32				32		
7 / 77						.7	.6	.5	.3	.2								23				23		
6 / 75					.2	1.3	1.9	1.8	.5	.2								59				59		
4 / 73				.6	.7	1.2	3.4	1.0	.3									72				72		
7 / 71			.3	.5	2.5	1.3	2.4	.7	.3									80				80	2	
7 / 69			.9	1.7	1.7	3.8	1.5	.5		.1								95				95	16	
6 / 67		.1	.7	.8	3.1	3.1	1.6	.3										97				97	44	
6 / 65	.1	.7	.9	2.3	2.4	2.6	1.3	.1										104				104	80	
4 / 63	.1	1.0	1.1	3.2	4.2	4.1	.5	.2										144				144	99	
7 / 61		1.5	1.1	2.4	2.1	1.1	.3											85				85	150	
7 / 59	.1	1.4	1.9	1.6	1.9	1.7	.1											80				80	153	
7 / 57		1.4	1.4	1.5	1.2	.4												59				59	133	
5 / 55	.1	.6	.3	.7	.1													18				18	139	
4 / 53		.7	.1	.2														10				10	105	
2 / 51																						50	138	
6 / 49																						31	100	
6 / 47																						5	87	
4 / 45																							98	
4 / 43																							31	
2 / 41																							21	
4 / 39																							8	
3 / 37																							5	
3 / 35																							2	
3 / 33																							1	
TOTAL	.4	7.3	8.6	14.7	20.0	21.2	14.4	6.7	3.8	1.5	.7	.5	.3					1007				1007	1007	
																						1007	1007	
Element (X)	Σ x'		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x	
Rel. Hum.	3954598		61444		61.0		4.292		1007		Σ 0 F		Σ 32 F		Σ 67 F		Σ 73 F		Σ 80 F		Σ 93 F		Total	
Dry Bulb	4626477		67931		67.4		6.939		1008						46.8		21.7		5.3				93	
Wet Bulb	3524971		59387		59.0		4.747		1007						5.7								93	
Dew Point	2836381		53131		52.8		5.736		1007						.1								93	

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64

## PSYCHROMETRIC SUMMARY

  AUG    
MONTH

PAGE 1 1500-1700  
HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
1 / 91													.1					1	1																
1 / 89											.2	.2						4	4																
8 / 87											.3	.1	.3					7	7																
6 / 85									.1	.1		.2	.2					6	6																
4 / 83									.6	.2	.1	.1		.1				11	11																
1 / 81							.6	.9	.9	.4	.1		.2					31	31																
1 / 79						.2	.5	.3	1.0	.2								22	22																
7 / 77					.1	1.0	1.2	.7	1.3	.4	.2	.1						50	50																
6 / 75					.6	1.1	1.1	2.4	.9	.1								62	62																
4 / 73				.7	.7	1.8	2.6	1.0	.7	.1		.1						77	77																
1 / 71			.5	.1	2.3	2.6	2.6	1.4	.1		.2							98	98																
1 / 69			.7	.9	1.4	3.6	2.0	1.0	.1									97	97	16															
1 / 67		.3	1.5	1.2	2.2	3.0	2.4	.3										109	109	58	2														
6 / 65		.3	.3	1.5	2.4	2.6	1.6											87	87	62	7														
4 / 63		1.2	.8	1.3	3.7	2.4	.6	.3										103	103	118	40														
1 / 61		1.3	1.1	2.4	2.6	2.1	.4	.1										100	100	157	64														
1 / 59		1.8	1.2	.8	1.7	.2	.1											58	58	136	67														
1 / 57	.2	.9	.4	1.3	.6	.1												35	35	144	90														
5 / 55		1.8	.3	.1	.2													24	24	136	105														
4 / 53		.3	.3															6	6	85	109														
2 / 51			.1															1	1	54	136														
5 / 49																				19	118														
1 / 47																				2	76														
4 / 45																					102														
4 / 43																					32														
2 / 41																					22														
4 / 39																					9														
3 / 37																					5														
1 / 35																					2														
2 / 31																					1														
1 / 29																					1														
1 / 27																					1														
TOTAL	.2	8.0	7.0	10.7	18.7	20.9	15.9	8.5	5.8	1.5	1.1	.8	.8	.1				989	989</																

0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS RULE ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

64-68, 76-81

AUC

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1870-2000

HOURS (L, S, T)

[illegible]

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64



## PSYCHROMETRIC SUMMARY

YEARS

AUG  
MONTH

PAGE 1

ALL

**HOURS (L, S, Y.)**

[illegible]

**USAFETAC**  
FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

AUG  
MONTH

ALL  
HOURS (L.S.T.)

[illegible]

**USAFETAC**  
FORM  
JA 94  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 0000-0200  
HOURS (L. S. T.)

[illegible]





## PSYCHROMETRIC SUMMARY

SEP  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

71 SEP 64-68,76-81 SEP  
STATION STATION NAME YEARS MONTH  
PAGE 1 0900-1100  
HOURS, S.T.

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

SEP  
MONTH

**USAFETAC**  
FORM  
RM 44  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

<u>17120</u>	<u>SEMBACH AB DL</u>
STATION	STATION NAME

64-68, 76-81

YEARS

SEP  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 1800-2000  
HOURS S. T. J.

[illegible]

**USAFETAC** FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
SER. 44

## PSYCHROMETRIC SUMMARY

YEARS

SEP  
MONTH

HOURS L. S. T.

## PSYCHROMETRIC SUMMARY

YEARS

HOURS: 9 A.M. - 5 P.M.

[illegible]

## PSYCHROMETRIC SUMMARY

1101	SEMBACH AB DL	64-67,81	OCT
STATION	STATION NAME	YEARS	MONTH

PAGE 1 0000-0200  
NOV 5 11 55 AM '71

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
4 / 63																		2	2																
1 / 61					.5													5	5																
1 / 59			.3	2.8	.5													14	14																
1 / 57			2.1	2.1														16	16	7															
5 / 55			4.4	.8														20	20	28	8														
4 / 53			9.3	2.3	.5													47	47	34	27														
2 / 51		.3	7.3	1.6	.5													37	37	40	48														
5 / 49	1.0	6.5	2.1	.3														38	38	34	35														
1 / 47	1.0	3.9	2.1															27	27	31	29														
4 / 45	.3	8.5	1.6															40	40	37	35														
4 / 43	.3	7.8	.3															32	32	44	27														
2 / 41	.3	3.4																14	14	29	41														
1 / 39	2.1	7.3	1.3															41	41	23	38														
3 / 37	1.0	3.9	1.8															26	26	33	27														
1 / 35	.5	.5	.8															7	7	18	25														
3 / 33	.3	1.0	.3															6	6	9	10														
2 / 31	1.0	1.6																10	10	11	12														
1 / 29	.5	.5																4	4	8	18														
1 / 27																					6														
TOTAL	2.56	8.1	9.7	2.3	1.3														386		386														
																		386		386															



## PSYCHROMETRIC SUMMARY

YEARS

0300-0500  
HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point													
+ / 63					.2													1	1															
/ 61					.2													2	2															
/ 59		.8	1.8	.4	.4													17	17															
/ 57		2.4	1.3															17	17	6														
5 / 55		3.8	.8	.4														25	25	30	8													
4 / 53	.2	6.6	1.8	.2														44	44	27	31													
7 / 51	.4	3.2	3.4	.2														36	36	39	44													
5 / 49	.6	5.6	1.6	.6														42	42	42	31													
/ 47	1.0	8.2	2.2	.4														58	58	45	29													
4 / 45	1.0	8.0	4.2															66	66	65	72													
4 / 43		5.2	1.2	.2														33	33	49	31													
2 / 41	1.0	5.6	.6															36	36	43	54													
+ / 39	1.8	4.6	.2															33	33	39	54													
3 / 37	1.4	4.0	.2															28	28	38	34													
- / 35	1.2	5.0	.4															33	33	32	32													
3 / 33	.4	1.4	.2															10	10	20	29													
2 / 31	.8	1.8																13	13	13	26													
/ 29	.6	.6																6	6	12	13													
/ 27	.4																	2	2	2	12													
/ 25																					2													
TAL	17.9	66.5	19.3	2.6	.2														502	502	502													
																		502		502														
																				</														

**USAFETAC**  
FORM  
JUL 64  
**0-26-5 (OL A)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

QCT  
MONTH

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
- / 61			.3	.3	.1													5	5																
- / 59		.3	.3	.1														9	9																
- / 57		2.3	1.9	.7														36	36	6	1														
5 / 55		2.4	1.5	.7														34	34	29	10														
4 / 53		4.2	2.7	.5														51	51	38	35														
2 / 51	.3	3.3	2.9	.1														50	50	55	42														
- / 49	.7	5.7	2.5	.3														69	69	61	45														
- / 47	.8	6.2	2.5	.4	.1													76	76	69	39														
4 / 45	1.6	9.4	4.1	.7														119	119	98	111														
4 / 43	.7	5.7	1.1	.1														57	57	89	77														
2 / 41	1.7	6.4	1.7															74	74	76	77														
- / 39	1.3	3.9	.1															40	40	62	68														
3 / 37	2.4	2.8	.4															42	42	54	55														
- / 35	1.3	2.8	.7															36	36	38	44														
3 / 33	1.6	1.3	.5															26	26	37	45														
2 / 31	1.5	.5																15	15	26	39														
- / 29	.4	.9																10	10	11	25														
- / 27	.4	.1																4	4	4	12														
- / 25																					10														
TOTAL	14.6	58.3	23.0	3.9	.3													753	753	753															

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5679182	65066	86.4	8.698	753	≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1599529	34291	45.5	7.103	753		3.6					93
Wet Bulb	1468833	32885	43.7	6.592	753		5.1					93
Dew Point	1340424	31352	41.6	6.827	753		10.6					93

## PSYCHROMETRIC SUMMARY

OCT

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0900-1100

HOURS 11 5 2 1

## PSYCHROMETRIC SUMMARY

OCT  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

[illegible]

**JSAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
MAR 64

## PSYCHROMETRIC SUMMARY

YEARS

OCT  
MONTH

PAGE 1

1500-1700  
HOURS (L. S. T.)

[illegible]

**USAFETAC** FORM 0-26-5 (OL A)  
REV 44  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]

**USAFETAC**  
FORM  
JUL 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

CCT

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2100-2300

HOURS 11-5 P.M.

[illegible]

**JSAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

3CT  
MONTH

ALL  
HOURS (L. S. T.)

[illegible]

**USAFETAC**  
FORM  
JUL 64  
0-26-3 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

NOV  
MONTH  
0000-0200  
HOURS (S.T.)

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
5 / 55			.5															2	2													
4 / 53		1.3	.5															7	7	3	1											
2 / 51		1.1	1.3															9	9	5	2											
5 / 49		2.1	1.1	.5														14	14	7	7											
1 / 47			.3															1	1	15	5											
4 / 45	.3	9.9																38	38	17	17											
4 / 43	.3	5.1	.8															23	23	29	23											
3 / 41	1.3	7.2	.3	.5														35	35	33	29											
4 / 39	.5	4.9	1.9															24	24	27	31											
3 / 37		6.7	.8															28	28	20	20											
1 / 35	.8	7.2	.8															33	33	38	18											
3 / 33	.5	8.6	1.1															38	38	26	28											
2 / 31	2.4	11.3																51	51	59	42											
1 / 29	.3	6.7																41	41	55	58											
1 / 27	.5	1.6																8	8	15	42											
1 / 25	.5	2.9																13	13	7	22											
2 / 23		.5																2	2	11	6											
2 / 21	.8	.5																5	5	5	10											
1 / 19	.3																	1	1	1	9											
1 / 17																					3											
TOTAL	12.6	76.9	9.4	1.1															373	373	373	373										

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

64-67, 76-81

YEARS

NOV  
MONTH

PAGE 1 0330-0500  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

NOV  
MONT

PAGE 1      600-3800  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

NOV  
MONTH

PAGE 1 0900-1100  
HOURS L. S. T.:

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL				TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																		
1 / 59			.2															2	2																				
1 / 57		.1	.2	.2														5	5																				
5 / 55		.1	.9	.6														14	14	3																			
4 / 53		.4	.6	.4														11	11	3	3																		
2 / 51		1.1	2.3	.2														31	31	16	3																		
1 / 49	.2	.9	3.0	.2														38	38	30	16																		
1 / 47	.1	3.7	1.4	.2	.1													42	42	46	15																		
4 / 45	.8	6.1	1.5	.5														76	76	58	63																		
4 / 43	.6	3.7	2.1	.6														63	63	65	57																		
2 / 41	.5	8.5	1.8	.5														96	96	60	65																		
4 / 39	.6	5.5	.9	.2														62	62	87	66																		
3 / 37	1.6	4.6	1.5	.1														67	67	76	67																		
1 / 35	.6	9.0	1.4	.1														95	95	68	53																		
3 / 33	.9	5.0	1.5	.1														65	65	96	79																		
2 / 31	2.3	6.5	1.4															88	88	100	100																		
1 / 29	.6	4.8	.6															51	51	64	61																		
1 / 27	.5	1.9	1.4															32	32	33	72																		
1 / 25	.4	1.1																12	12	35	30																		
2 / 23		.1																1	1	8	29																		
2 / 21	.2	.1																3	3	3	18																		
1 / 19	.2																	2	2	2	10																		
1 / 17	.1																	1	1	1	11																		
1 / 15	.1																	1	1	1	3																		
1 / 13																																							
TOTAL	10.46	2.62	2.9	4.0	.1													855	855	655	855																		

Element (X)	$\Sigma X^1$	$\Sigma X$	$\bar{X}$	$\sigma_X$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	6179258	71842	84.0	9.225	855	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1358243	33475	39.2	7.452	855		20.1					90
Wet Bulb	1229409	31855	37.3	7.361	855		26.0					90
Dew Point	1074382	29592	34.6	7.666	855		38.7					90

AD-A122 711

SENBACH AB GERMANY. (WEST) REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBS. (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A. 28 JUL 82  
UNCLASSIFIED USAFETAC/DS-82-04B SBI-AD-8890 204

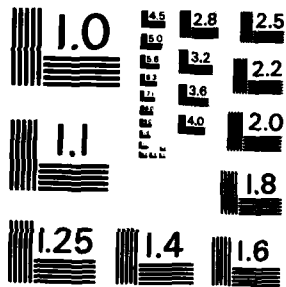
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515

END  
PAGE  
100

END  
PAGE  
100



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

## PSYCHROMETRIC SUMMARY

NOV

YEARS

MONTH

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 NOV  
MONTH 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
4 / 63				.2														2	2													
5 / 61			.1		.1													2	2													
6 / 59			.4		.1													4	4													
7 / 57			.4	.3	.2													12	12	3												
8 / 55			.7	.8	.1													14	14	3												
9 / 53		.6	1.8	1.1	.1													30	30	4	4											
10 / 51		1.1	2.6	1.4	.2													45	45	24	2											
11 / 49		1.5	3.2	1.3	.1													52	52	53	12											
12 / 47	.2	2.2	3.5	1.2	.7													67	67	50	29											
13 / 45	.1	6.2	2.6	1.2	.6	.1												92	92	81	78											
14 / 43	.1	2.9	4.1	2.8	.4													88	88	65	49											
15 / 41	.4	5.1	2.7	1.3	.5													85	85	73	74											
16 / 39	.6	5.4	2.8	.5														79	79	85	67											
17 / 37	.6	5.6	.8	.8														67	67	100	68											
18 / 35	.1	4.6	1.5	1.3														64	64	82	74											
19 / 33	.7	6.1	1.3	.6														74	74	72	87											
20 / 31		3.0	1.1	.2														37	37	86	79											
21 / 29	.4	1.6	1.3															28	28	32	70											
22 / 27	.1	.8	.1															9	9	26	61											
23 / 25		.4																3	3	12	30											
24 / 23		.1																1	1	4	30											
25 / 21																					21											
26 / 19																					11											
27 / 17																					8											
28 / 15																					1											
TOTAL	3.3	47.3	30.8	15.4	3.2	.1												855	855	855	855											
															</																	

**USAFETAC** FORM 0.26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

PAGE 1 1800-2000

## PSYCHROMETRIC SUMMARY

YEARS

NOV  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OLA)

**USAFETAC**

## PSYCHROMETRIC SUMMARY

1 7120	SEMBACH AB DL
STATION	STATION NAME

64-67, 76-81

YEARS

NOV  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

1 7125 SEMBACH AB DL 64-67,77 DEC  
STATION STATION NAME YEARS MONTH  
PAGE 1 0000-0200  
HOURS (L, S, T.)

[illegible]

## PSYCHROMETRIC SUMMARY

DEC  
MONTH

PAGE 1 0300-0500  
HOURS 11 5 11

**USAFETAC** FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

DEC  
MONTH

[illegible]

**USAFETAC**  
FORM  
AF 64  
**0-26-5 (OL A)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

DEC  
MONTN

PAGE 1 0900-1100  
HOURS L. S. T.

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

PAGE 1 1250-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb (Corr. Point)				
57				.1														1	1				
55				.3														3	3				
53				1.0														9	9				
51	.1	.1	.4	.6	.1													12	12	2	1		
49	.1	1.2	1.2	.4														27	27	13	1		
47	.1	2.1	.3	.8														30	30	31	1		
45	.2	5.3	2.0															67	67	46	34		
43	.8	4.2	1.2		.1													56	56	52	52		
41		4.2	1.9	.4														58	58	56	35		
39	.1	7.2	.7															71	71	47	48		
37	.8	4.5	3.3	.1														77	77	91	43		
35	1.1	9.3	3.5															124	124	76	86		
33	.9	8.5	2.5	.2														108	108	130	101		
31	1.0	5.4	.7															63	63	129	69		
29	1.2	4.4	.3															53	53	59	110		
27	.6	5.9	1.2															69	70	48	94		
25	.1	2.1																20	21	49	64		
23	.1	1.7																16	16	23	35		
21	.7	.8																13	13	21	24		
19	.9	.4																12	12	13	40		
17		.1																1	1	4	19		
15		.1																1	1		13		
13																				1	8		
11																					1		
9																					2		
TOTAL	3.96	67.6	19.3	4.0	.2													891		893	891		

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

PAGE 1 1500-1700  
HOURS 11.5.71

**USAFETAC**  
FORM  
MIL. AA  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

DEC  
MONTH

PAGE 1      2100-2300  
HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
51			1.0		.2													7	7																
5 / 49		.5	1.0	.3														11	11	3															
47		2.1	1.0															19	19	14															
45		2.8	1.0	.2														24	24	18	17														
43		3.3	1.8															31	31	26	21														
41	.5	5.9	.8															44	44	26	19														
39	.8	4.6	.2															34	34	58	35														
37	3.3	7.4	1.0															71	71	54	56														
35	3.2	7.2	1.0															68	68	65	67														
33	1.6	7.4	2.1															68	68	66	53														
31	.7	11.9	.5															79	79	81	52														
29	.7	4.9	.8															39	39	65	65														
27	2.1	3.8	.2															36	36	39	73														
25	1.3	.8																13	13	25	40														
23	1.1	3.6																28	28	17	30														
21	1.1	1.5																15	15	27	18														
19	1.1	1.0																12	12	12	18														
17	.5	.3																5	5	8	22														
15	.2	.2																2	2	2	12														
13	.2																	1	1	1	7														
11																					2														
TOTAL	17.66	9.4	12.4	.5	.2													607	607	607	607														

**USAFETAC**  
FORM  
JAN 44  
**0-26-5 (OL A)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS.

DEC  
MONTH

PAGE 1

ALL  
HOURS: 11.5.7.

[illegible]

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

## PSYCHROMETRIC SUMMARY

ALL  
MONTH

**ALL  
HOURS L. S.**

**USAFETAC** FORM 0-26-5 (OLA)  
JUL 64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

ALL  
MONIA

ALL  
MOORS S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point											
/ 25	.2	.8	.1	.0														762	766	1253	2078											
/ 23	.1	.6	.0															536	536	748	1601											
2 / 21	.2	.4	.0															444	444	623	1167											
/ 19	.2	.2	.0															297	297	389	917											
/ 17	.1	.2																178	178	265	714											
1 / 15	.1	.1	.0															121	122	127	553											
/ 13	.	.1																96	96	170	344											
1 / 11	.	.1																77	77	100	195											
/ 9	.1	.0																57	57	60	196											
/ 7	.	.0																18	18	16	117											
/ 5	.	.0																15	15	19	66											
/ 3	.	.0																10	10	9	16											
/ 1	.																	2	2	3	24											
/ -1	.																	4	4	4	9											
- / -3	.																	1	1	1	3											
- / -5																					3											
- / -7																					1											
- / -9																					1											
TOTAL	5.338	0.21	7.13	1.1	8.3	5.5	3.3	1.9	1.0	.5	.2	.1	.1	.0	.0			70853		70844												
																		70844		70844												

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

17120 SEMBACH AB DL

64-68,76-81

STATION		STATION NAME												YEARS	
HRS	EST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
0-32	MEAN	31.1	34.9	37.6	43.3	49.5	55.7	57.1	56.3	52.4	47.0	37.1	34.3	45.7	
	S D	9.256	8.226	6.934	6.815	6.866	5.584	5.814	5.702	5.696	7.444	7.374	7.013	11.393	
	TOTAL OBS	372	351	406	435	475	469	502	478	441	386	373	373	5061	
33-45	MEAN	30.5	33.9	37.3	40.7	46.9	53.2	54.8	54.4	50.8	45.9	37.3	33.8	44.1	
	S D	9.119	8.141	7.188	6.517	6.347	5.303	5.399	5.499	5.784	7.365	7.535	7.403	10.808	
	TOTAL OBS	479	447	509	545	579	573	627	605	593	502	478	492	6429	
46-58	MEAN	30.2	33.1	37.2	40.7	49.1	56.1	57.8	55.7	51.2	45.5	37.7	33.4	44.7	
	S D	8.840	7.549	7.814	6.514	6.563	6.100	5.994	5.512	5.758	7.103	7.720	7.893	11.729	
	TOTAL OBS	698	724	806	809	830	821	898	913	867	753	706	739	9564	
59-71	MEAN	30.9	34.9	41.2	47.2	55.8	62.5	64.7	63.0	57.9	49.5	39.2	34.4	49.0	
	S D	8.610	7.759	7.551	7.650	7.653	7.760	7.760	6.195	5.832	7.353	7.452	7.776	13.851	
	TOTAL OBS	816	832	926	893	911	894	987	1005	969	903	855	892	10883	
72-84	MEAN	33.5	38.4	45.6	51.7	59.8	66.1	68.7	67.4	62.9	54.0	42.0	36.5	52.8	
	S D	7.872	7.654	7.550	8.518	8.645	8.759	8.802	6.939	6.469	7.692	7.380	7.354	14.520	
	TOTAL OBS	818	833	930	889	914	896	991	1008	972	906	859	893	10909	
85-97	MEAN	33.7	39.1	46.7	52.6	61.0	67.3	69.9	68.4	63.5	54.3	42.0	36.4	53.5	
	S D	7.552	7.597	7.549	8.821	8.898	8.841	8.977	7.088	6.680	7.509	7.191	7.146	14.823	
	TOTAL OBS	819	830	929	883	902	887	984	989	951	906	855	893	10828	
98-110	MEAN	32.2	36.7	43.3	49.7	58.4	64.9	67.2	65.1	59.2	50.4	40.0	35.0	51.0	
	S D	7.772	6.836	7.284	7.933	8.353	8.278	8.531	6.706	5.859	6.873	7.156	7.367	14.207	
	TOTAL OBS	696	719	803	792	810	801	886	897	834	759	701	735	9433	
111-123	MEAN	31.5	35.4	40.2	45.4	53.1	59.5	61.3	59.6	55.0	48.2	38.7	34.7	47.4	
	S D	8.181	7.064	6.896	6.777	7.157	6.745	7.148	5.612	5.304	7.101	7.321	7.296	12.323	
	TOTAL OBS	585	592	668	680	696	690	704	660	640	637	587	607	7746	
ALL HOURS	MEAN	31.9	36.1	41.8	47.0	54.9	61.4	63.6	62.1	57.4	50.0	39.6	35.0	49.1	
	S D	8.409	7.838	8.199	8.788	9.162	8.914	9.268	8.082	7.650	8.004	7.602	7.518	13.748	
	TOTAL OBS	5283	5328	5977	5926	6117	6031	6579	6555	6267	5752	5414	5624	70853	

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

107120 SEMBACH AB DL

64-68,76-81

STATION

STATION NAME

YEARS

HRS	MEAN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0-02	MEAN S D TOTAL OBS	29.9 8.834 372	32.9 7.621 351	35.0 6.130 406	40.4 6.333 435	46.5 6.090 475	52.9 5.065 469	53.5 5.225 502	54.0 5.089 478	50.4 5.208 441	45.2 6.969 386	35.8 7.312 373	32.9 6.629 373	43.3 10.706 5061
03-05	MEAN S D TOTAL OBS	29.2 8.775 478	32.2 7.633 446	35.0 6.639 509	38.5 6.406 545	44.6 6.021 579	51.1 5.088 573	52.0 5.140 627	52.4 5.207 605	49.0 5.478 593	44.1 6.897 502	35.9 7.228 478	32.4 6.999 491	42.1 10.386 6426
06-08	MEAN S D TOTAL OBS	29.0 8.468 698	31.6 7.176 724	35.0 7.304 806	38.3 6.384 809	46.0 6.016 830	52.8 5.301 821	54.2 5.168 898	53.1 5.153 913	49.2 5.474 867	43.7 6.592 753	36.1 7.394 706	32.2 7.550 739	42.4 10.958 9564
09-11	MEAN S D TOTAL OBS	29.5 8.147 816	32.9 7.261 832	37.9 6.785 926	42.5 6.329 893	49.6 5.969 911	56.1 5.601 894	57.8 5.420 987	57.3 4.707 1005	53.7 4.922 969	46.6 6.439 903	37.3 7.061 855	33.1 7.465 889	45.0 11.772 10880
12-14	MEAN S D TOTAL OBS	31.5 7.340 818	35.3 6.986 833	40.6 6.658 930	44.7 6.381 889	51.5 6.163 914	57.7 5.712 896	59.3 5.595 991	59.0 4.747 1007	56.0 5.146 972	49.3 6.280 906	39.2 6.796 859	34.7 6.960 891	47.1 11.588 10906
15-17	MEAN S D TOTAL OBS	31.6 7.127 819	35.8 6.925 830	41.1 6.587 929	45.1 6.214 883	51.9 6.176 902	58.1 5.652 887	59.8 5.365 984	59.3 4.697 989	56.3 5.099 951	49.5 6.258 906	39.2 6.668 855	34.6 6.792 893	47.3 11.608 10828
18-20	MEAN S D TOTAL OBS	30.5 7.358 696	34.1 6.403 719	38.9 6.540 803	43.6 6.110 792	50.7 6.032 810	57.1 5.545 801	58.7 5.337 886	57.9 4.742 897	54.4 4.914 834	47.2 6.279 759	37.9 6.717 701	33.6 7.039 735	46.1 11.597 9433
21-23	MEAN S D TOTAL OBS	30.0 7.773 585	33.2 6.568 592	36.9 6.452 668	41.2 5.960 680	48.2 5.884 696	54.7 5.214 690	55.9 5.245 704	55.4 4.751 660	52.1 4.869 640	45.8 6.566 637	37.0 6.973 587	33.3 6.893 607	44.1 10.959 7746
ALL HOURS	MEAN S D TOTAL OBS	30.3 7.944 5282	33.7 7.169 5327	38.0 7.073 5977	42.1 6.733 5926	49.0 6.540 6117	55.4 5.927 6031	56.9 5.943 6579	56.5 5.465 6558	53.1 5.809 6267	46.8 6.800 5752	37.6 7.074 5418	33.5 7.133 5618	45.0 11.459 70888



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

7120 SEMBACH AB DL  
STATION

64-68,76-81  
YEARS

HRS (LST)	MEAN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0-02	27.1	29.3	31.0	36.7	43.5	50.7	50.5	52.1	48.7	43.4	33.7	30.5	40.7	
	S.D.	9.556	8.379	6.329	7.448	6.679	5.278	6.104	5.377	5.475	7.193	7.446	7.076	11.308
	TOTAL OBS	372	351	406	435	475	469	502	478	441	386	373	373	5061
3-05	26.5	28.9	31.5	35.6	42.1	49.3	49.6	50.7	47.5	42.3	33.6	29.9	39.8	
	S.D.	9.548	8.482	7.124	7.584	6.835	5.587	5.924	5.595	5.783	7.084	7.781	7.516	11.117
	TOTAL OBS	478	446	509	545	579	573	627	605	593	502	478	491	6426
6-08	26.2	28.6	31.5	35.0	42.7	50.1	51.3	50.9	47.5	41.6	33.7	29.9	39.8	
	S.D.	9.216	8.129	8.034	7.617	7.009	5.740	5.826	5.715	5.871	6.827	8.049	8.086	11.499
	TOTAL OBS	698	724	806	809	830	821	898	913	867	753	706	739	9564
9-11	26.5	29.4	33.4	36.8	43.7	51.3	52.6	53.0	50.2	43.8	34.6	30.6	41.0	
	S.D.	8.907	8.314	7.751	7.440	6.986	5.811	6.011	5.446	5.631	6.589	7.666	8.109	11.729
	TOTAL OBS	816	832	926	893	911	894	987	1005	969	903	855	889	10880
12-14	27.9	30.5	34.1	36.9	43.7	51.4	52.5	52.8	50.5	44.9	35.5	31.7	41.5	
	S.D.	8.181	8.273	8.422	7.674	7.299	5.903	6.266	5.736	6.277	6.717	7.470	7.681	11.452
	TOTAL OBS	818	833	930	889	914	896	991	1007	972	906	859	891	10906
15-17	27.8	30.6	33.9	36.6	43.4	51.3	52.5	52.6	50.5	44.8	35.4	31.7	41.3	
	S.D.	8.098	8.394	8.675	7.702	7.562	6.001	6.082	5.957	6.336	6.852	7.534	7.530	11.478
	TOTAL OBS	819	830	929	883	902	887	984	989	951	906	855	893	10828
18-20	27.3	29.9	32.8	36.3	43.4	51.1	52.5	52.5	50.5	44.1	35.0	31.1	41.2	
	S.D.	8.103	7.665	8.328	7.831	7.369	5.866	5.983	5.930	6.875	7.281	7.666	11.571	
	TOTAL OBS	696	719	803	792	810	801	886	897	834	759	701	735	9433
1-23	27.1	29.5	32.1	36.0	43.3	50.9	51.6	52.1	49.6	43.4	34.5	31.0	40.5	
	S.D.	8.549	7.565	7.809	7.557	7.105	5.694	5.936	5.750	5.500	6.978	7.562	7.384	11.395
	TOTAL OBS	585	592	668	680	696	690	704	660	640	637	587	607	7746
ALL HOURS	27.1	29.7	32.8	36.3	43.3	50.8	51.8	52.2	49.5	43.7	34.7	30.9	40.8	
	S.D.	8.701	8.168	8.061	7.641	7.166	5.810	6.097	5.763	6.028	6.930	7.630	7.720	11.492
	TOTAL OBS	5282	5327	5977	5926	6117	6031	6579	6554	6267	5752	5414	5618	70844

## RELATIVE HUMIDITY

1 7120  
STATION

SEMBACH AB DL

STATION NAME

65-68, 77-81

PERIOD

JAN  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

## RELATIVE HUMIDITY

FEB  
MONT

## RELATIVE HUMIDITY

7120  
STATION

SEMBACH AB DL  
STATION NAME

65-68, 76-81

PERIOD

MAR  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT: WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

10120  
STATION

SENBACH AB DL  
STATION NAME

65-68,76-81  
PERIOD

APR  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	100.0	100.0	97.7	88.3	69.7	48.0	21.1	78.1	435
	03-05	100.0	100.0	100.0	100.0	99.3	96.3	84.0	59.8	29.5	82.4	545
	06-08	100.0	100.0	100.0	100.0	99.0	93.6	78.0	56.9	23.0	80.7	609
	09-11	100.0	100.0	99.9	97.2	86.1	67.7	45.4	26.3	6.5	68.8	893
	12-14	100.0	100.0	98.0	86.1	66.8	44.3	25.4	13.7	3.7	59.4	889
	15-17	100.0	100.0	95.2	79.0	59.0	41.7	26.2	14.2	3.4	57.5	883
	18-20	100.0	100.0	99.0	88.0	68.7	50.9	34.5	18.6	5.6	62.3	792
	21-23	100.0	100.0	100.0	98.5	87.8	70.1	52.4	31.3	10.7	70.9	687
TOTALS		100.0	100.0	99.0	93.6	83.1	69.1	52.0	33.6	12.9	70.0	5926

## RELATIVE HUMIDITY

1 7123  
STATION

SEMBACH AB DL

65-68, 76-81

MAY  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	100.0	100.0	98.3	95.9	78.7	60.0	23.2	80.8	475
	03-05	100.0	100.0	100.0	99.8	99.1	95.7	86.9	66.8	34.2	83.8	579
	06-08	100.0	100.0	99.8	99.3	97.1	91.4	77.6	51.7	22.0	79.5	830
	09-11	100.0	100.0	99.5	95.1	83.3	62.3	39.1	18.1	4.3	65.7	911
	12-14	100.0	100.0	97.7	85.3	63.9	42.0	21.7	8.9	2.5	57.6	914
	15-17	100.0	100.0	95.0	76.9	56.9	34.8	18.3	8.2	2.5	54.6	902
	18-20	100.0	100.0	98.3	86.5	68.9	47.0	27.7	13.6	5.2	60.0	610
	21-23	100.0	100.0	99.7	97.1	88.1	73.7	54.7	31.5	10.5	71.2	696
TOTALS		100.0	100.0	98.8	92.5	82.0	67.2	50.6	32.4	13.1	69.2	6117

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

### RELATIVE HUMIDITY

20712  
STATION

SEMBACH AB DL

65-68, 76-81

JUN  
MONTI

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

20



1



1

1

2

FORM  
JUL 64

0-87-5 (OL A)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AD WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

100120  
STATION

SEMBACH AB DL

STATION NAME

64-68,76-81

PERIOD

AUG  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	100.0	100.0	100.0	99.4	99.4	89.7	73.6	42.3	86.3	474
	03-05	100.0	100.0	100.0	100.0	99.7	98.8	92.9	77.2	47.8	87.7	625
	06-08	100.0	100.0	100.0	100.0	99.6	96.4	88.0	60.3	36.1	84.4	913
	09-11	100.0	100.0	100.0	98.7	94.1	75.4	50.9	25.8	9.3	71.0	1005
	12-14	100.0	99.9	99.0	94.4	76.6	44.8	23.5	11.1	3.5	61.0	1007
	15-17	100.0	99.8	98.2	90.4	69.5	39.5	20.8	11.1	2.9	59.3	989
	18-20	100.0	100.0	99.0	95.4	83.4	57.6	37.5	18.6	5.9	65.5	897
	21-23	100.0	100.0	100.0	98.8	96.1	85.8	69.8	45.9	19.8	77.5	660
TOTALS		100.0	100.0	99.5	97.2	89.8	74.7	59.1	41.5	21.0	74.1	5554

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

1 7120  
STATION

SENBACH AB DL

STATION NAME

64-68,76-81

PERIOD

SEP  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	100.0	100.0	100.0	99.8	97.7	94.1	81.4	44.0	87.4	441
	03-05	100.0	100.0	100.0	100.0	100.0	99.2	96.0	85.7	50.4	88.6	593
	06-08	100.0	100.0	100.0	100.0	100.0	99.5	95.4	78.9	42.3	87.2	867
	09-11	100.0	100.0	100.0	99.5	97.7	89.3	71.0	39.1	12.6	76.6	969
	12-14	100.0	100.0	100.0	97.8	86.8	61.4	35.7	12.6	3.2	65.2	972
	15-17	100.0	100.0	100.0	95.4	82.6	57.1	33.8	15.1	4.0	64.2	951
	18-20	100.0	100.0	100.0	98.7	95.0	84.8	64.1	32.9	9.0	74.1	834
	21-23	100.0	100.0	100.0	99.8	98.8	95.9	88.0	58.9	26.3	82.6	643
TOTALS		100.0	100.0	100.0	98.9	95.1	85.6	72.3	50.6	24.0	78.2	6267

2



OCT  
MONTH

10120	SENBACH AB DL	64-67,76-81	OC
STATION	STATION NAME	PERIOD	MON

USAFETAC      FORM 0-87-5 (OL A)  
JUL 64

5

1

NOV  
MONTH

.....

5  
 NATIONAL CLIMATOLOGY BRANCH  
 WFO/TAC  
 AIR WEATHER SERVICE/MAC

# RELATIVE HUMIDITY

STATION 120 SEMRACH AB DL STATION NAME 64-67,76-81 PERIOD MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
01	03-02	100.0	100.0	100.0	100.0	100.0	100.0	98.9	93.9	22.3	85.7	573
	03-05	100.0	100.0	100.0	100.0	100.0	99.8	96.9	81.1	25.9	85.4	491
	06-08	100.0	100.0	100.0	100.0	100.0	100.0	96.1	82.7	35.6	86.9	734
	09-11	100.0	100.0	100.0	100.0	100.0	99.4	94.9	70.2	32.3	86.1	699
	12-14	100.0	100.0	100.0	100.0	99.9	98.7	86.6	60.7	22.6	90.8	891
	15-17	100.0	100.0	100.0	100.0	99.8	98.7	89.2	64.9	24.5	93.5	893
	18-20	100.0	100.0	100.0	100.0	100.0	99.5	94.4	77.0	28.8	85.8	735
	21-23	100.0	100.0	100.0	100.0	100.0	99.5	96.5	83.1	32.1	86.3	607
TOTALS		100.0	100.0	100.0	100.0	100.0	99.5	94.2	70.7	26.0	85.4	5614

CLIMATE CLIMATOLOGY BRANCH  
 AFMTC  
 AIR WEATHER SERVICE/MAC

# RELATIVE HUMIDITY

1. STATION NAME  
 DUMRACH AB DL

PERIOD  
 64-68, 76-81

ALL MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	100.0	99.5	97.7	88.3	66.8	22.5	57.1	5482
FEB		100.0	100.0	100.0	99.8	98.1	90.6	75.5	51.7	18.9	74.0	5327
MAR		100.0	100.0	99.6	97.6	92.5	80.2	58.3	32.8	10.8	72.4	5477
APR		100.0	100.0	99.0	93.6	83.1	69.1	52.0	33.6	12.9	70.0	5425
MAY		100.0	100.0	98.4	92.5	82.0	67.2	50.6	32.4	13.1	69.2	6117
JUN		100.0	100.0	99.1	96.5	88.8	73.8	57.4	34.3	12.9	72.0	6031
JUL		100.0	100.0	98.4	94.5	84.2	68.2	51.0	29.0	13.1	69.7	6572
AUG		100.0	100.0	99.5	97.2	89.8	74.7	59.1	41.5	21.0	74.1	6554
SEP		100.0	100.0	100.0	98.9	95.1	85.6	72.3	50.6	24.0	78.2	6267
OCT		100.0	100.0	100.0	99.9	99.1	93.1	81.9	56.2	22.9	81.1	5752
NOV		100.0	100.0	100.0	100.0	99.7	97.1	88.3	70.4	25.1	83.5	5414
DEC		100.0	100.0	100.0	100.0	100.0	99.5	94.2	76.7	28.0	85.4	5612
TOTALS		100.0	100.0	99.5	97.5	92.7	83.1	69.1	46.0	18.8	76.5	71844

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART F

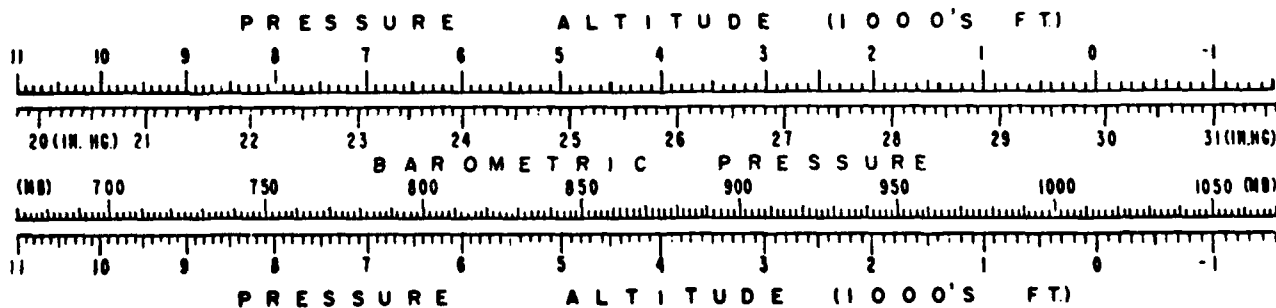
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.  
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.  
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars. DATA NOT AVAILABLE

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

107120

SEMBACH AB DL

64-68,76-81

STATION

STATION NAME

YEARS

HRS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
MEAN	28.834	28.818	28.883	28.809	28.866	28.923	28.922	28.880	28.893	28.865	28.828	28.756	28.860	
S D	.280	.306	.279	.240	.184	.137	.139	.154	.194	.265	.304	.318	.239	
TOTAL OBS	125	117	135	145	157	156	169	158	147	129	125	124	1687	
MEAN	28.876	28.735	28.874	28.828	28.844	28.908	28.898	28.881	28.866	28.858	28.777	28.727	28.849	
S D	.270	.307	.270	.233	.192	.133	.159	.150	.195	.216	.314	.339	.234	
TOTAL OBS	94	89	107	144	154	149	139	150	149	100	94	94	1463	
MEAN	28.822	28.822	28.842	28.833	28.853	28.920	28.905	28.904	28.925	28.858	28.882	28.745	28.862	
S D	.319	.315	.287	.220	.190	.145	.145	.156	.189	.259	.307	.366	.252	
TOTAL OBS	231	241	266	267	275	273	297	299	286	251	235	247	3168	
MEAN	28.865	28.814	28.847	28.843	28.860	28.924	28.916	28.918	28.941	28.870	28.912	28.751	28.873	
S D	.324	.321	.277	.219	.193	.146	.149	.151	.191	.248	.308	.380	.256	
TOTAL OBS	241	250	278	266	272	268	272	304	294	270	255	266	3236	
MEAN	28.835	28.830	28.844	28.820	28.847	28.913	28.906	28.906	28.936	28.859	28.906	28.743	28.864	
S D	.324	.315	.276	.216	.187	.143	.144	.150	.184	.259	.298	.366	.252	
TOTAL OBS	272	277	377	297	305	298	329	336	324	302	287	298	3632	
MEAN	28.842	28.792	28.816	28.808	28.832	28.899	28.893	28.894	28.914	28.845	28.888	28.729	28.847	
S D	.324	.312	.266	.210	.186	.143	.147	.144	.185	.243	.306	.376	.251	
TOTAL OBS	242	248	279	268	273	268	273	304	291	271	255	267	3239	
MEAN	28.834	28.830	28.837	28.806	28.832	28.894	28.884	28.888	28.917	28.863	28.885	28.747	28.853	
S D	.321	.303	.278	.210	.183	.139	.138	.148	.188	.260	.312	.369	.248	
TOTAL OBS	232	240	267	264	270	266	295	299	279	253	233	245	3143	
MEAN	28.878	28.818	28.858	28.835	28.863	28.919	28.897	28.893	28.920	28.846	28.846	28.750	28.860	
S D	.313	.301	.276	.214	.183	.139	.148	.144	.199	.237	.321	.384	.252	
TOTAL OBS	177	192	216	211	218	216	177	188	183	199	184	193	2354	
ALL HOURS	MEAN	28.845	28.813	28.845	28.823	28.849	28.912	28.902	28.898	28.921	28.858	28.878	28.744	28.859
S D	.315	.311	.277	.218	.187	.142	.146	.150	.190	.251	.309	.367	.250	
TOTAL OBS	1614	1654	1855	1862	1924	1894	1951	2038	1953	1775	1668	1734	21922	



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